

Appendix 1. Cell type-specific sorting by BD Aria II using postmortem human brain sample.

An overview of cell type-specific sorting using postmortem samples of prefrontal cortex.

UMB_ID	Category	Date	Weight (mg)	NeuN ⁺	NeuN ⁻	NeuN ⁺ gDNA (ng)	NeuN ⁻ gDNA (ng)	Purity (%)
1815	Rett	20141112	32	206,157	359,601	486	382	99.7
1571	control	20141113	97	607,553	1,454,375	1,378	2,587	99.6
4516	Rett	20141120	125	1,447,909	8,068,812	3,666	22,100	99
1846	control	20141119	77	1,073,946	1,226,869	3,042	2,015	99.2
4852	Rett	20141029	104	32,136	5,297,495	101	2,756	NA
1347	control	20141030	45	404,093	1,135,614	1,144	1,128	99.6
4882	Rett	20141104	67	1,100,590	4,426,782	928	1,404	94.8
4591	control	20141204	54	NA	NA	1,755	1,173	99.1
1420	Rett	20141127	NA	691,671	2,046,284	1,677	4,394	99.7
1455	control	20141203	132	1,492,461	3,809,266	2,782	3,952	98.6
Average			81	784,057	3,091,678	1,696	4,189	98.8

Default parameters of BD Aril II:

FSC=260; SSC=330; DAPI=250; PE=457

Description of the FACS gating:

The first gate (P1) was set as an FSC-A vs. SSC-A plot to discriminate the population containing small size debris. The second (P2) and third (P3) gates were set as FSC-H vs. FSC-W and SSC-H vs. SSC-W plots, respectively, to remove doublets and clumps. The fourth (P4) NeuN⁺ and fifth (P5) NeuN⁻ gates were set in the NeuN-PE (561 nm) vs. FSC-A plot. The sixth (P6) NeuN⁻ and seventh (P7) NeuN⁺ gates were set in a count plot of NeuN-stained nuclei.

Description of the FACS sorting log files:

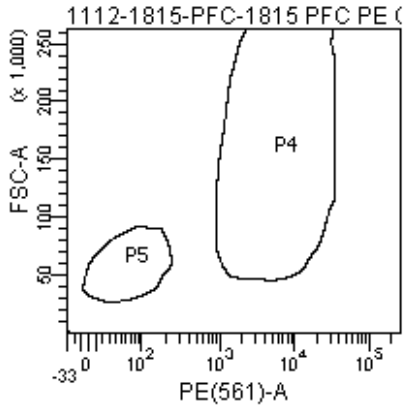
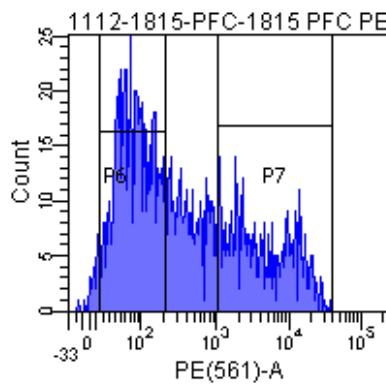
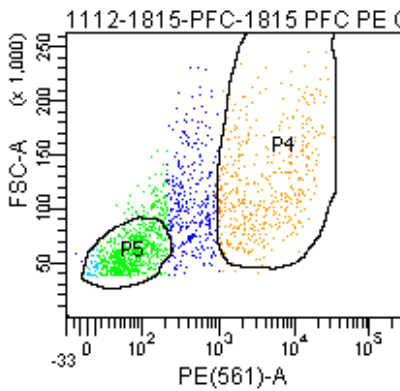
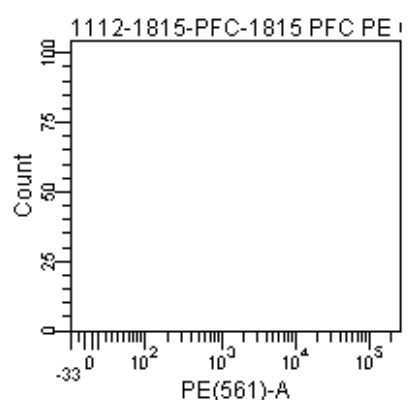
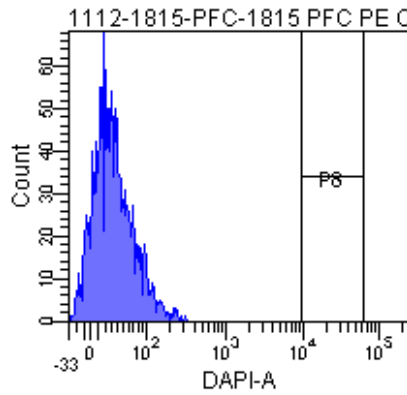
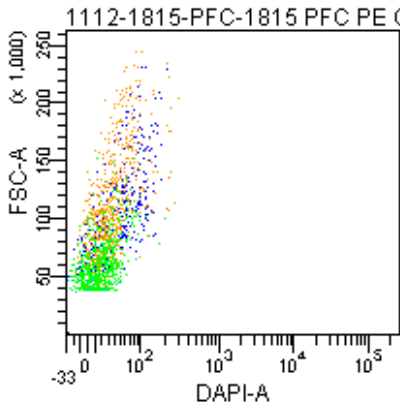
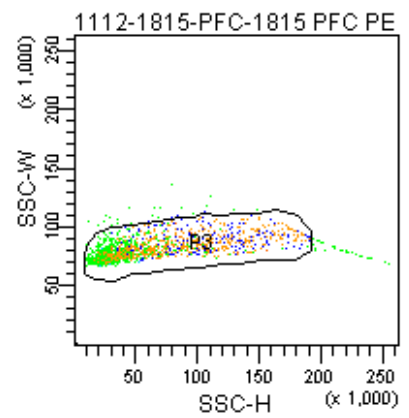
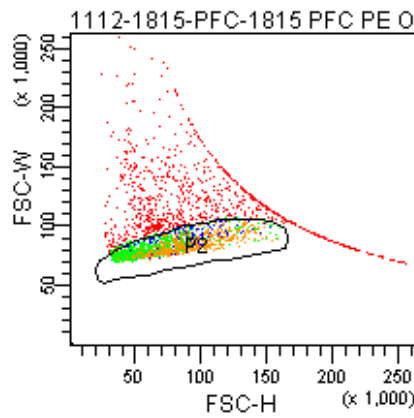
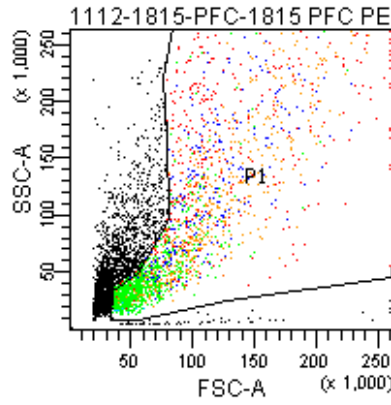
Before staining nuclei, we kept 20 μ l of the nuclei fraction from the human brain tissue sample in another tube and add 180 μ l of 1% BSA in PBS. This served as an unstained control sample (TUBE: PBS CONTROL) for flow cytometry. The rest of nuclei fraction was stained with NeuN-PE. Before sorting samples, the cytometer settings should be optimized for scatter and fluorescence parameters by adjusting forward scatter (FSC) and side scatter (SSC) voltages. The FSC threshold should be optimized by using an unstained control sample (TUBE: PBS CONTROL) to display the population of nuclei appropriately on the FSC vs. SSC plot. Fluorescence photomultiplier tube (PMT) voltage for the signal from blue laser should be optimized using a small volume of the stained sample (TUBE: PE ONLY CONTROL). Adjusting P4 (NeuN⁺) and P5 (NeuN⁻) sorting gates using a small volume of the stained sample with DAPI (TUBE: PE + DAPI). After the adjustment, we sorted the nuclei fraction by P4 (NeuN⁺) and P5 (NeuN⁻) gates using NeuN-PE stained sample (TUBE: PE SAMPLE). Collect the sorted nuclei in the collection tubes. After sorting, some of the sorted fractions should be reanalyzed to verify the purity (TUBE: GLIA BACK and TUBE: NEURON BACK).

The BD Arial II FACS sorting reports of UMB#1815

Sample: prefrontal cortex

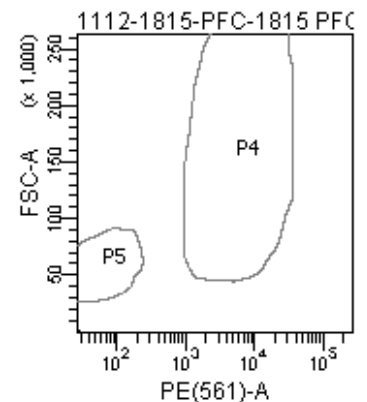
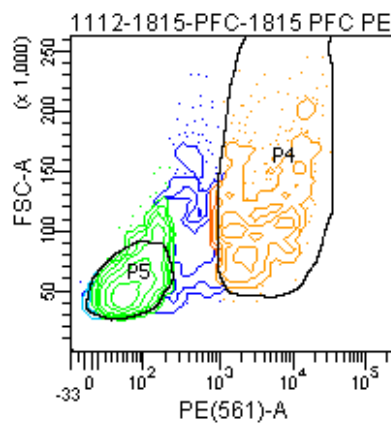
Category: Rett patient

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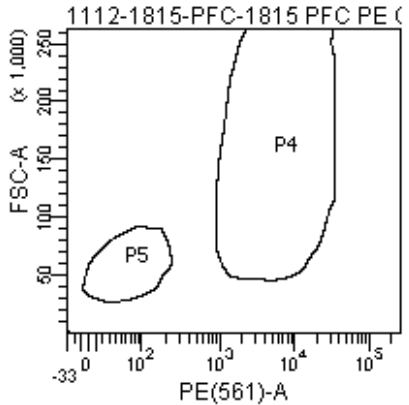
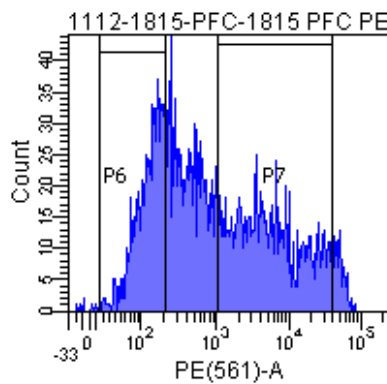
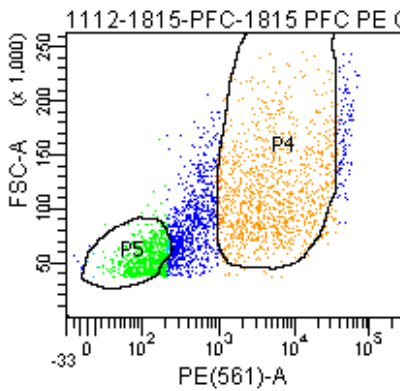
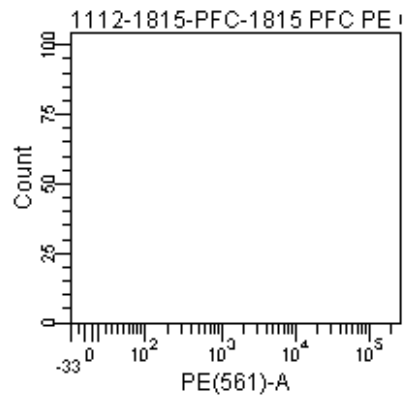
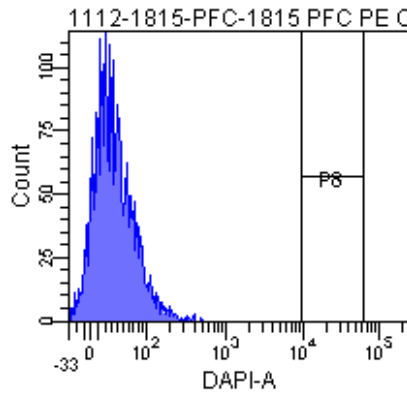
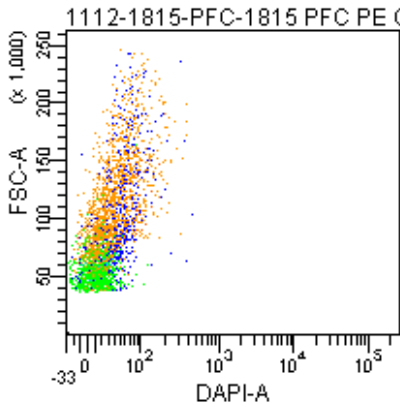
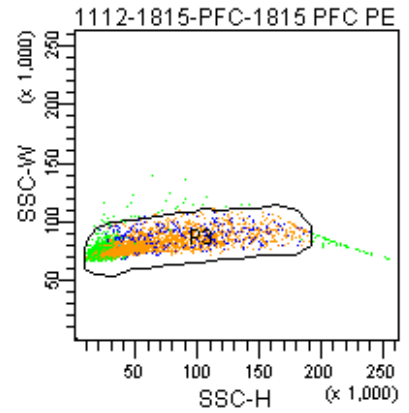
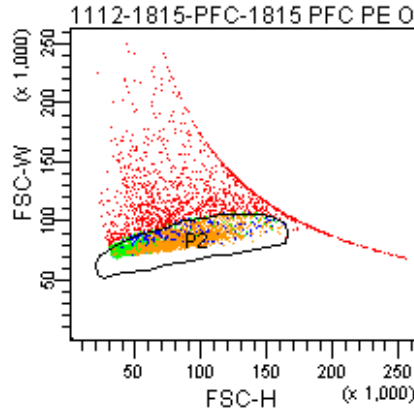
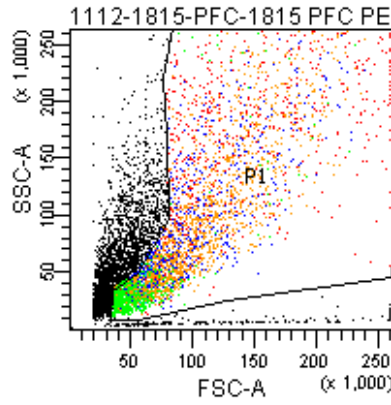


Tube: 1815 PFC PE ONLY 400V

Population	#Events	%Parent
All Events	4,566	###
P1	2,627	57.5
P2	1,668	63.5
P3	1,588	95.2
P4	473	29.8
P5	683	43.0
P6	738	46.5
P7	450	28.3
P8	0	0.0

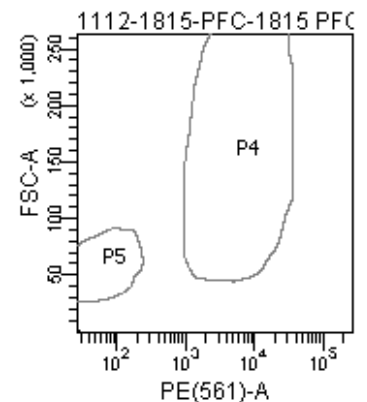
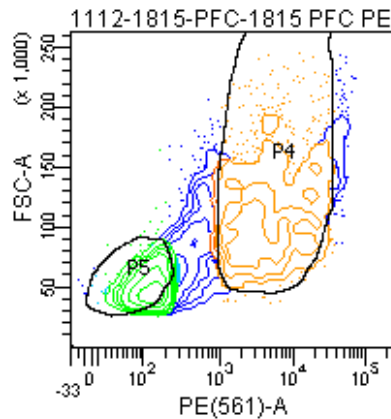


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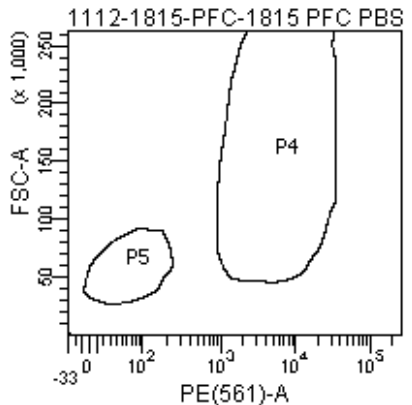
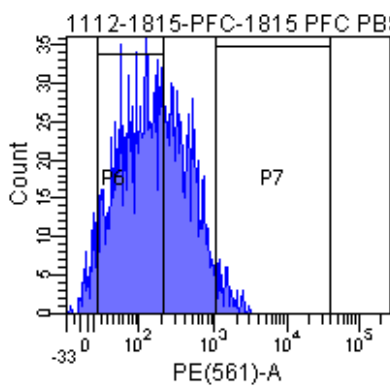
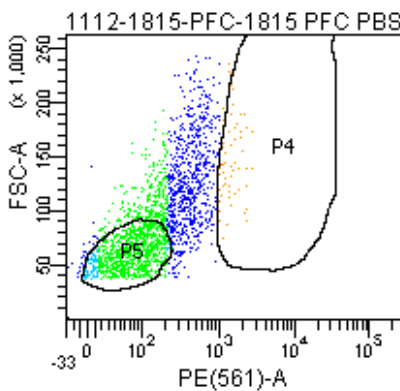
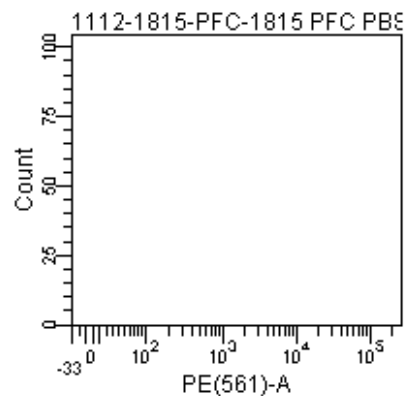
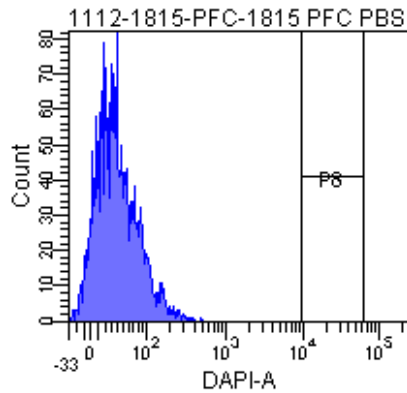
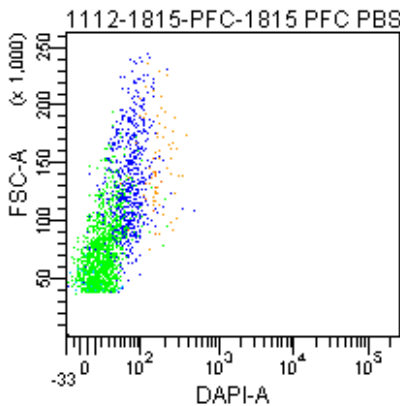
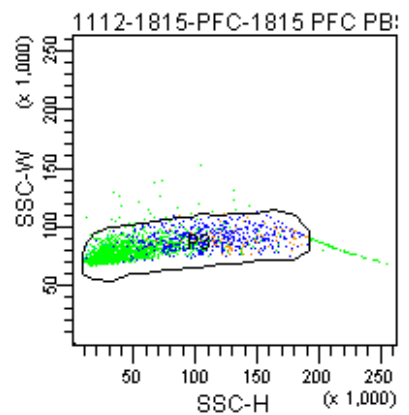
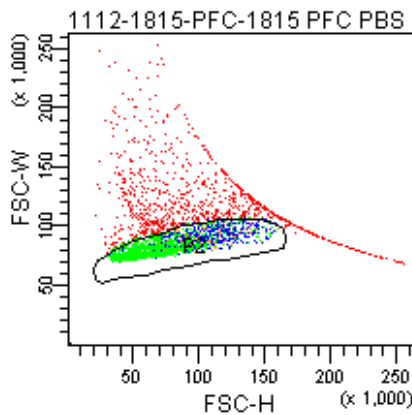
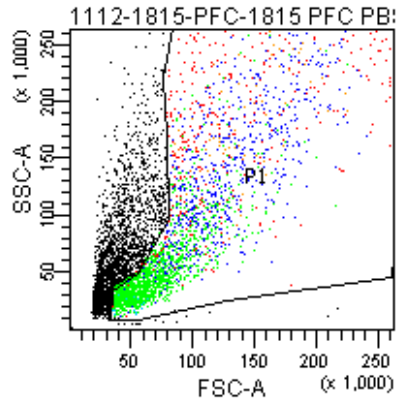


Tube: 1815 PFC PE ONLY 457V

Population	#Events	%Parent
All Events	7,474	###
P1	4,508	60.3
P2	3,008	66.7
P3	2,906	96.6
P4	1,094	37.6
P5	703	24.2
P6	776	26.7
P7	1,120	38.5
P8	0	0.0

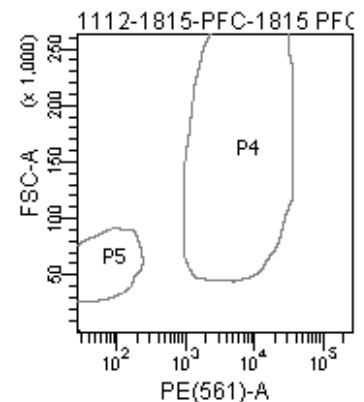
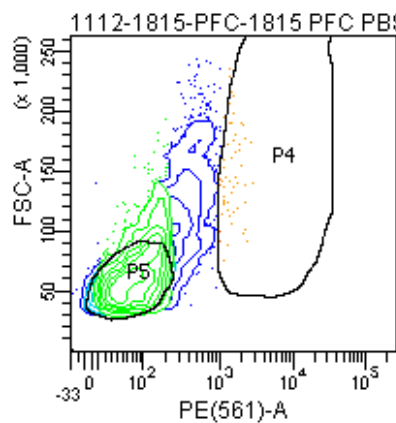


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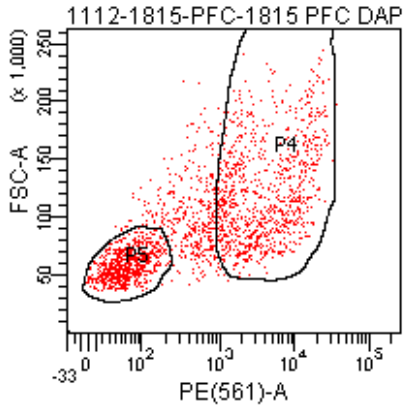
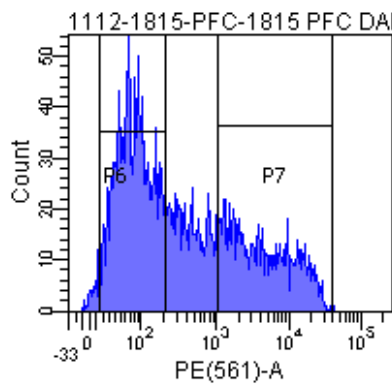
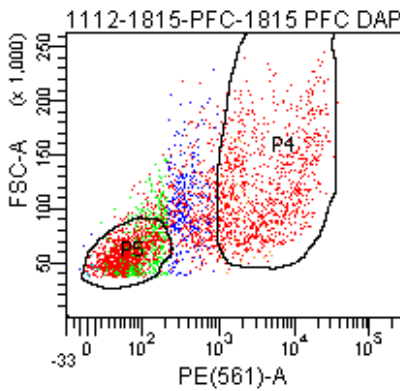
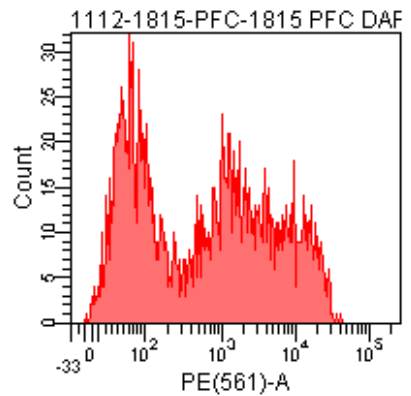
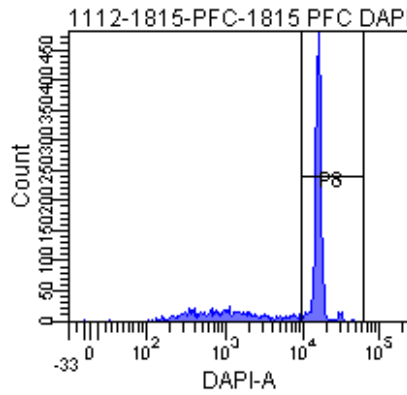
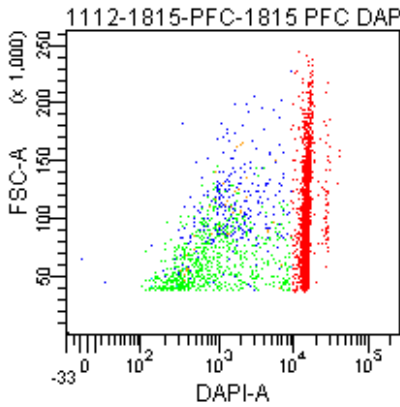
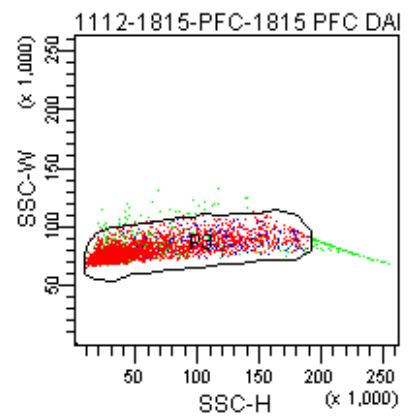
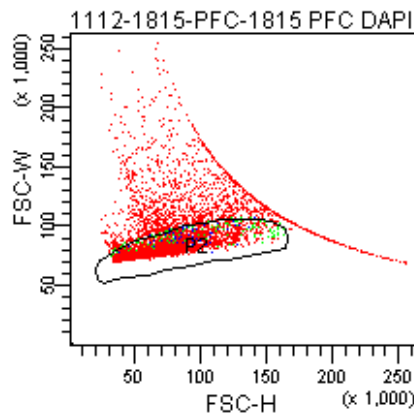
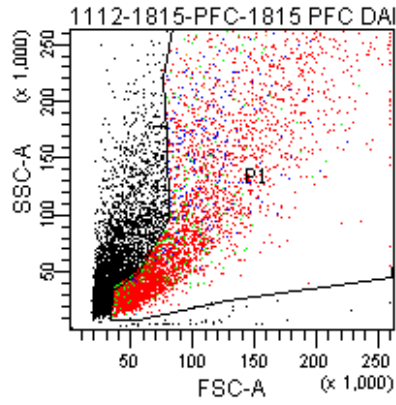


Tube: 1815 PFC PBS 457V

Population	#Events	%Parent
All Events	5,294	###
P1	3,116	58.9
P2	2,178	69.9
P3	2,071	95.1
P4	65	3.1
P5	989	47.8
P6	1,190	57.5
P7	57	2.8
P8	0	0.0

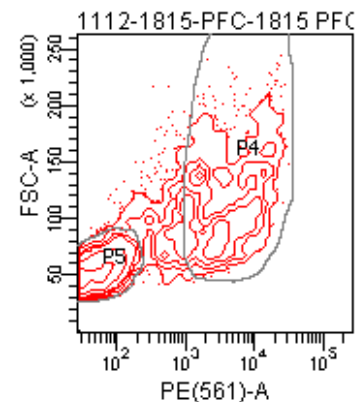
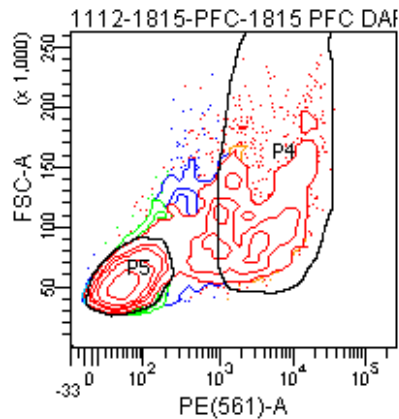


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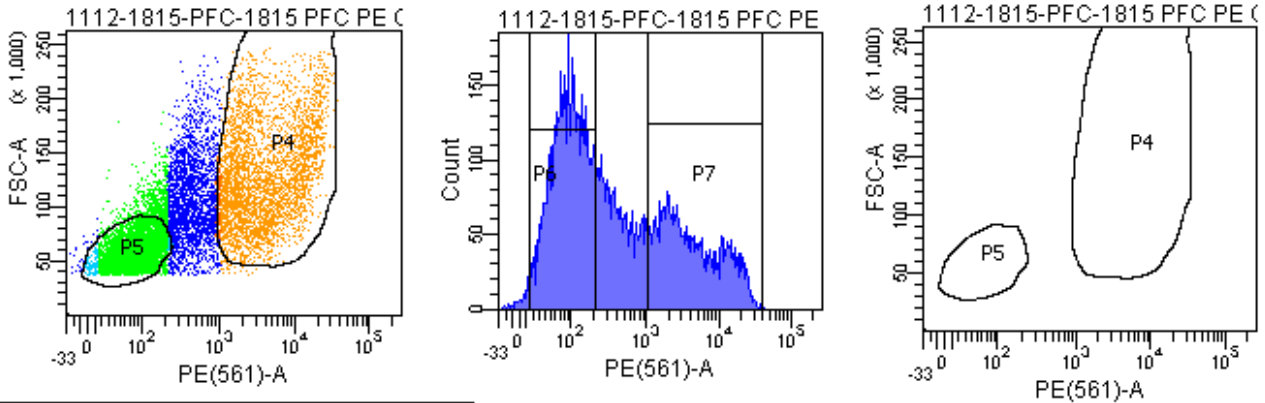
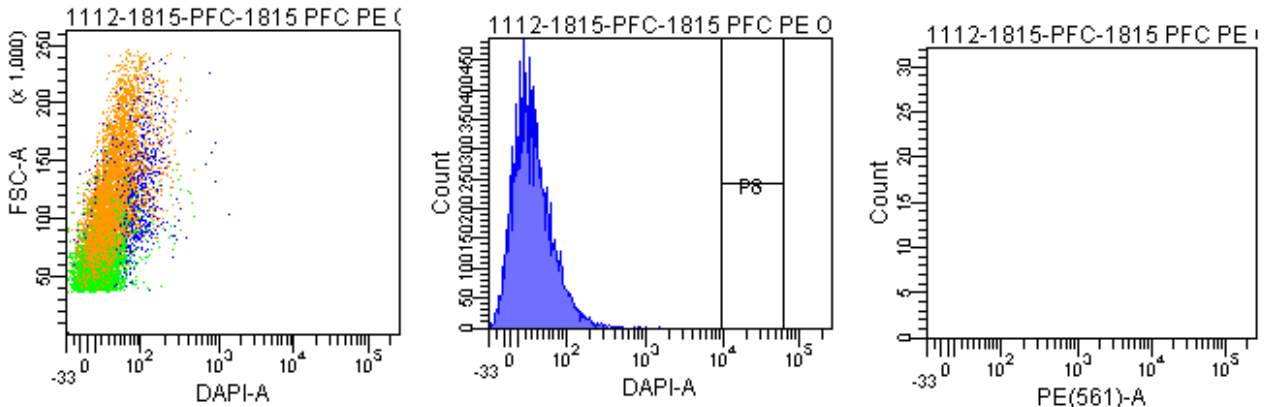
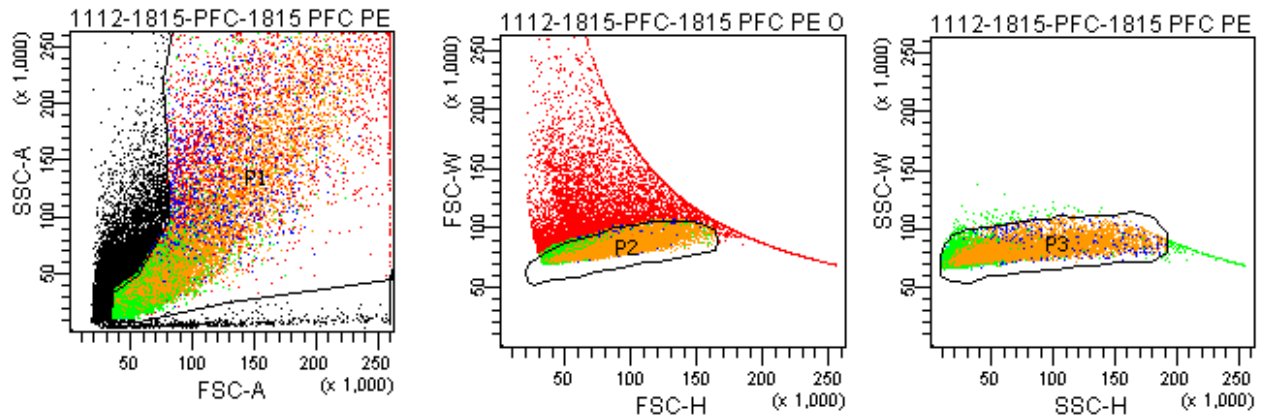


Tube: 1815 PFC DAPI+PE 400V

Population	#Events	%Parent
All Events	8,814	###
P1	5,049	57.3
P2	3,363	66.6
P3	3,159	93.9
P4	979	31.0
P5	1,381	43.7
P6	1,489	47.1
P7	941	29.8
P8	2,121	67.1

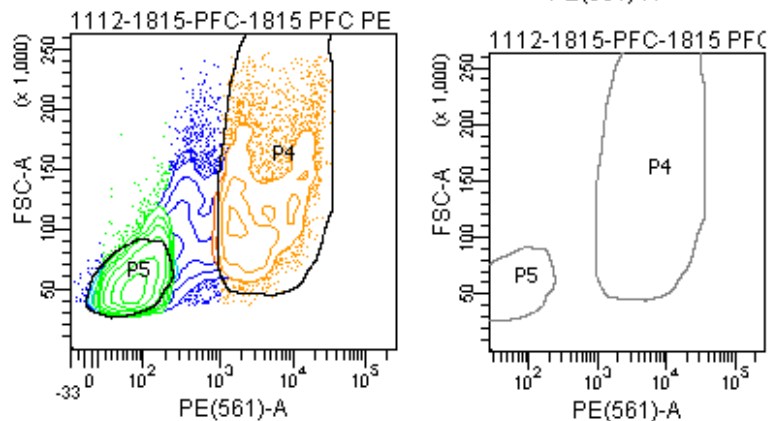


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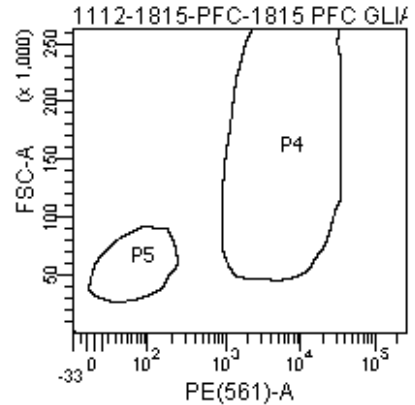
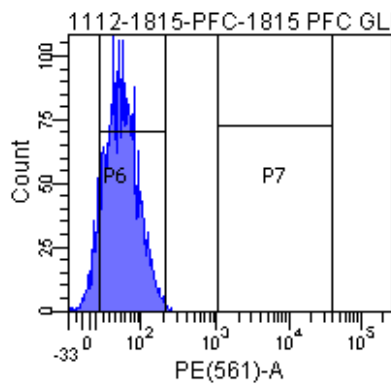
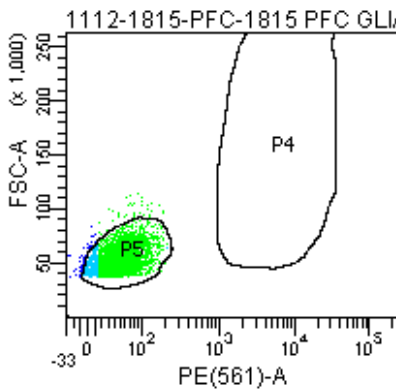
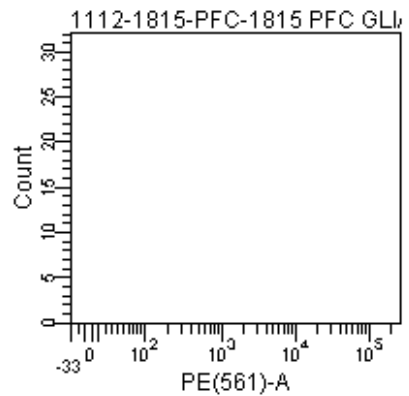
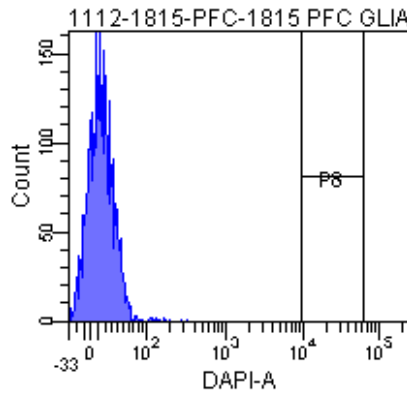
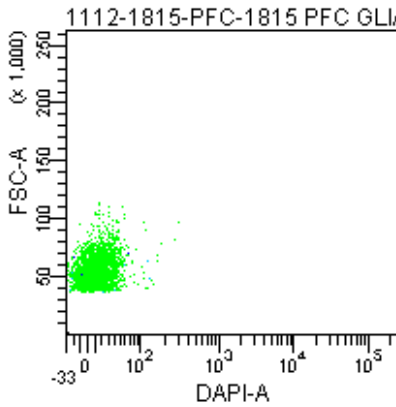
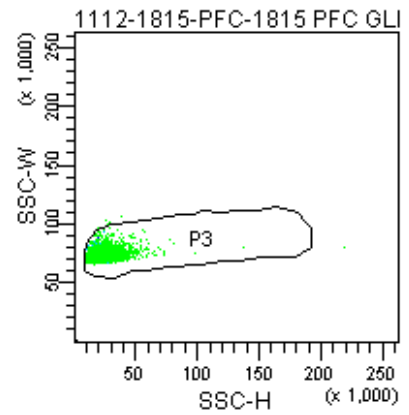
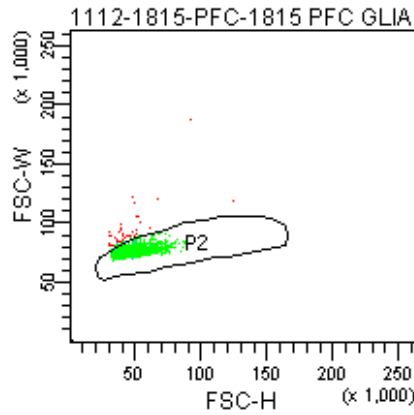
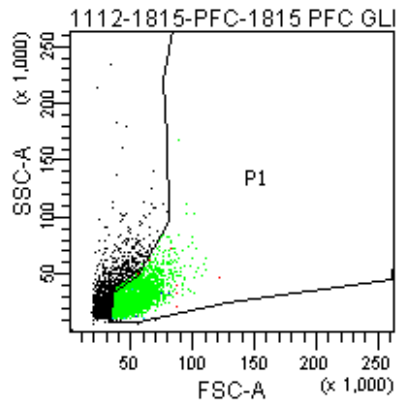


Tube: 1815 PFC PE ONLY SAMPLE

Population	#Events	%Parent
All Events	31,883	###
P1	20,000	62.7
P2	12,215	61.1
P3	11,896	97.4
P4	3,670	30.9
P5	5,067	42.6
P6	5,500	46.2
P7	3,578	30.1
P8	0	0.0

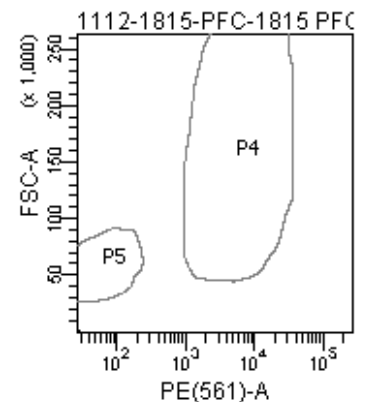
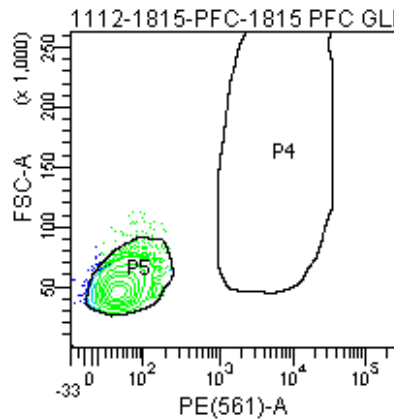


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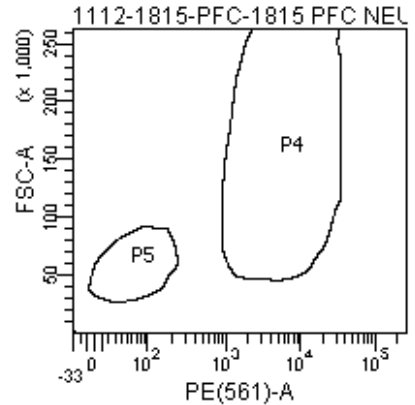
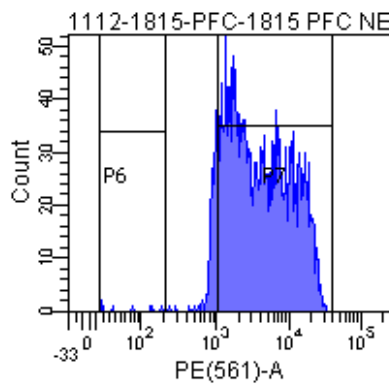
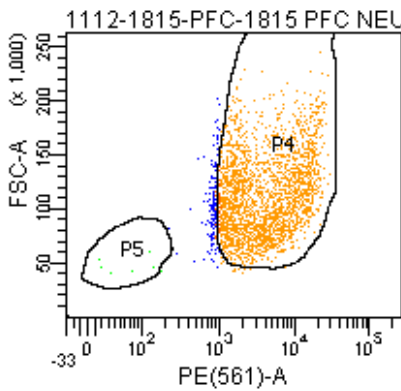
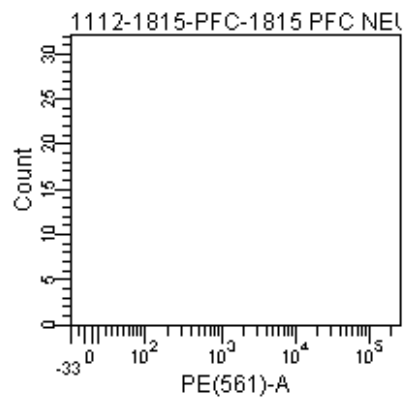
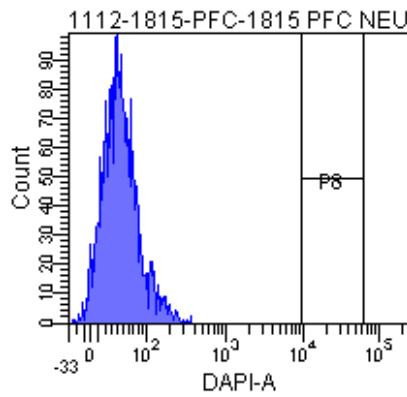
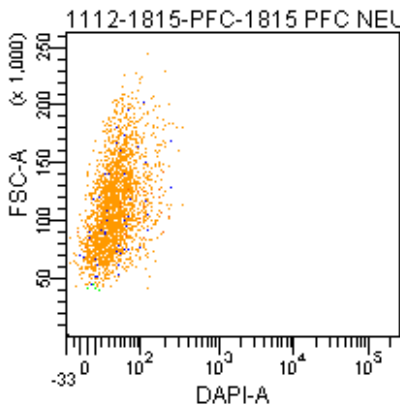
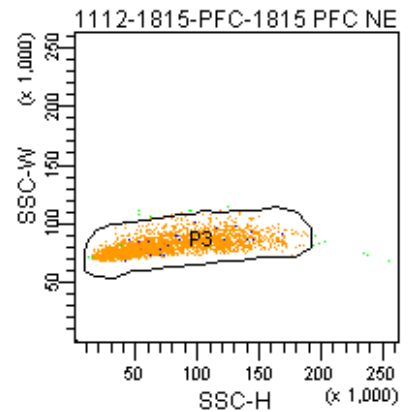
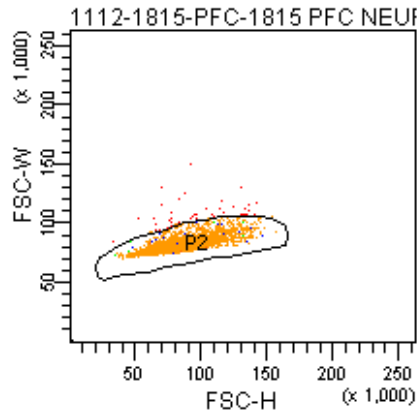
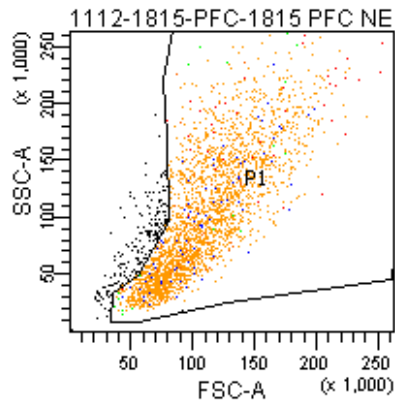


Tube: 1815 PFC GLIA BACK

Population	#Events	%Parent
All Events	4,338	###
P1	2,956	68.1
P2	2,913	98.5
P3	2,905	99.7
P4	0	0.0
P5	2,816	96.9
P6	2,603	89.6
P7	0	0.0
P8	0	0.0

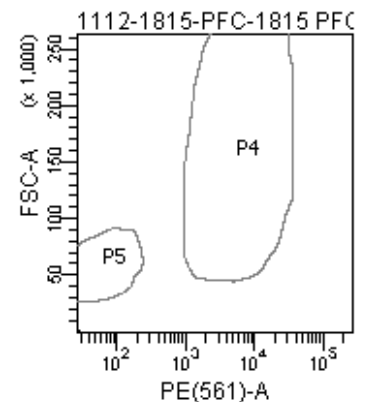
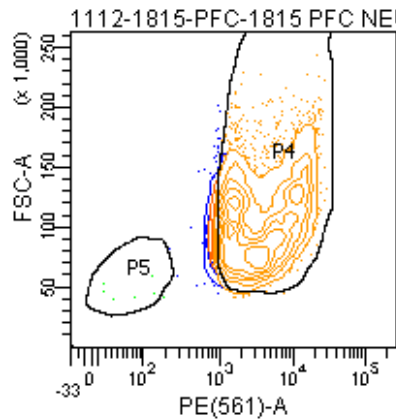


FACSDiva Version 6.1.3



Tube: 1815 PFC NEURON BACK

Population	#Events	%Parent
All Events	2,716	###
P1	2,519	92.7
P2	2,476	98.3
P3	2,461	99.4
P4	2,286	92.9
P5	6	0.2
P6	7	0.3
P7	2,218	90.1
P8	0	0.0

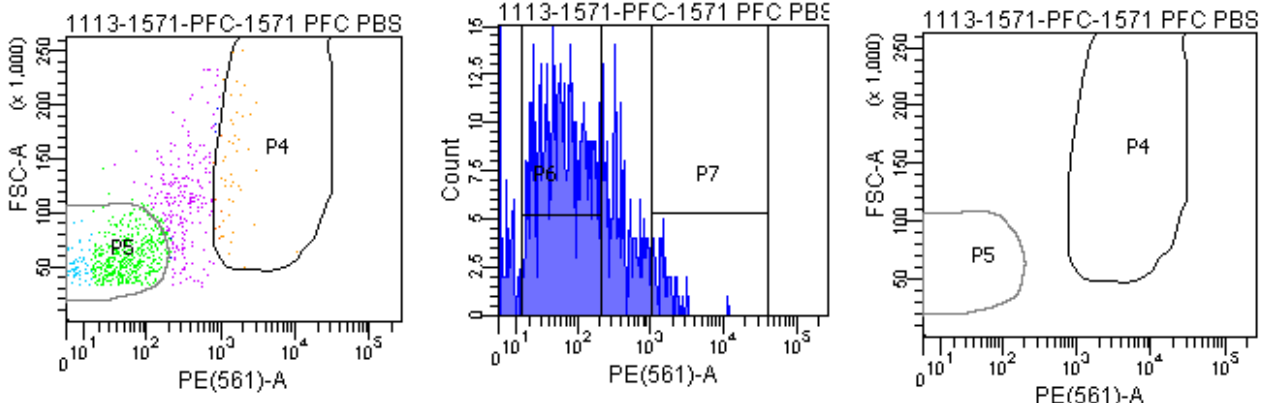
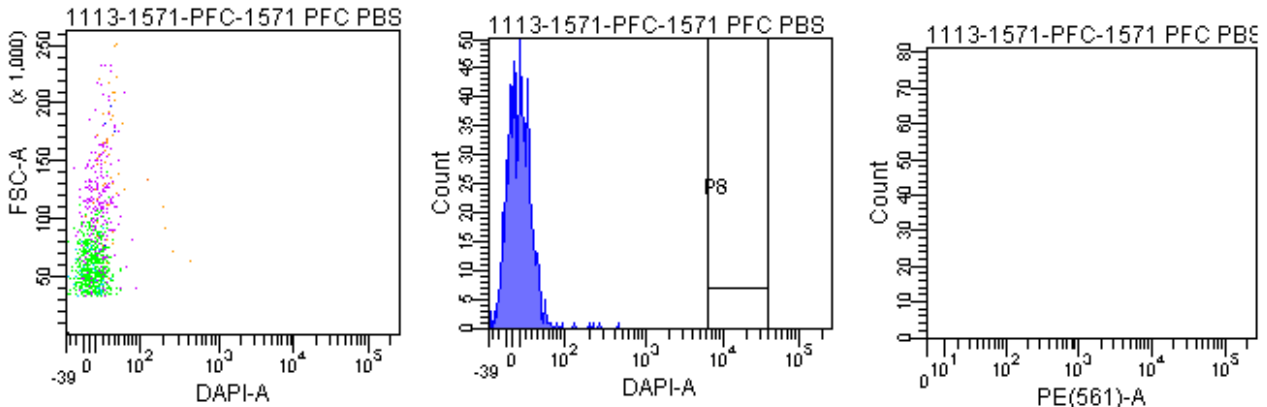
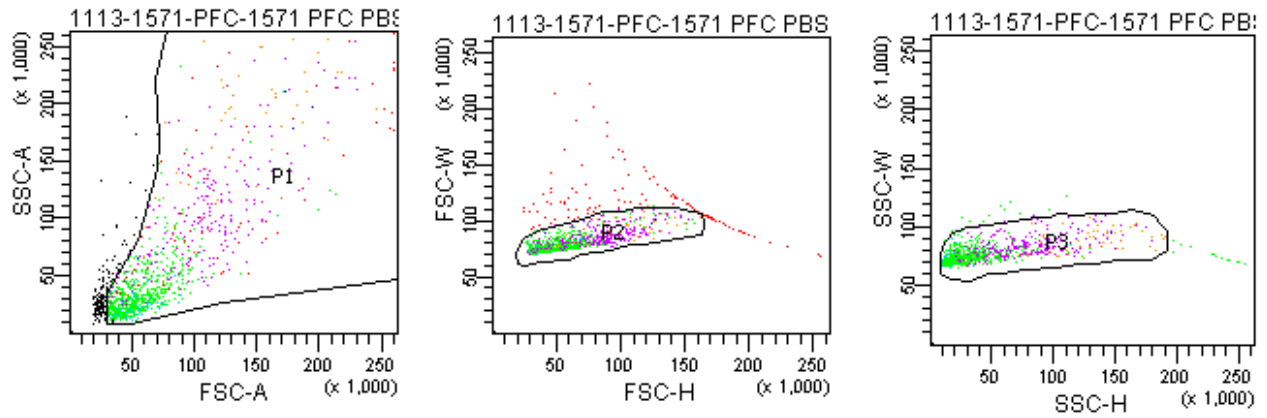


The BD Arial II FACS sorting reports of UMB#1571

Sample: prefrontal cortex

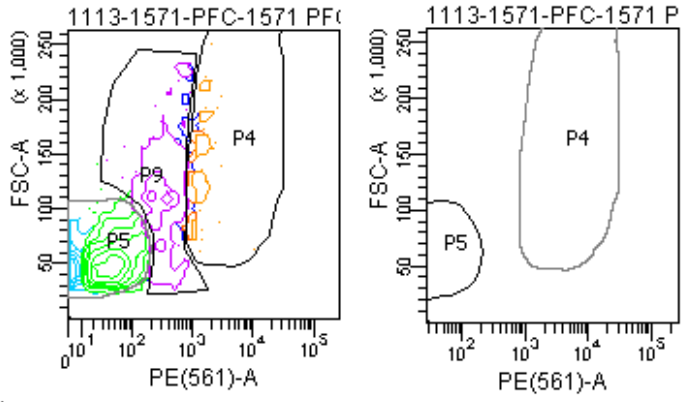
Category: healthy control

FACSDiva Version 6.1.3

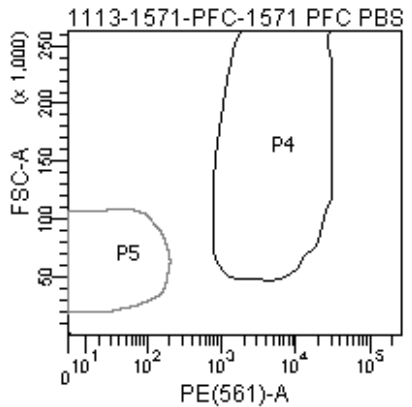
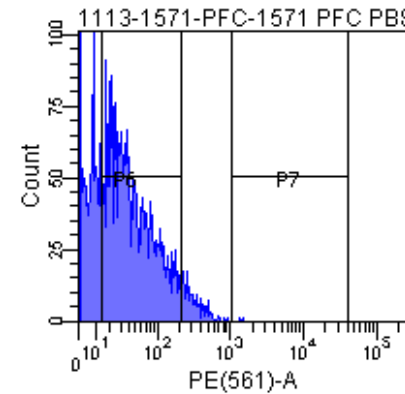
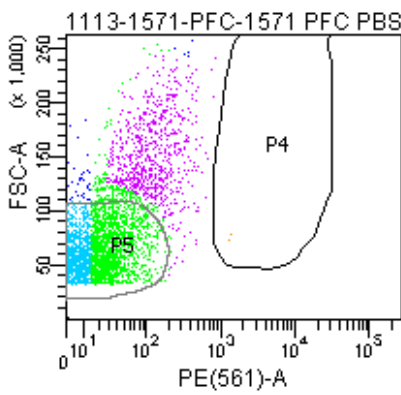
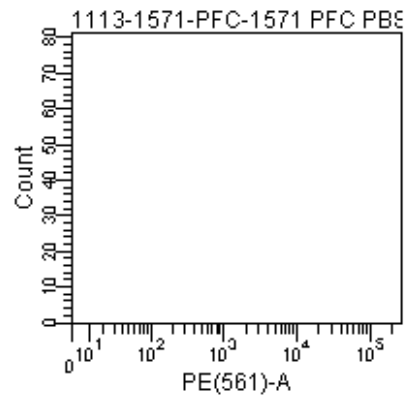
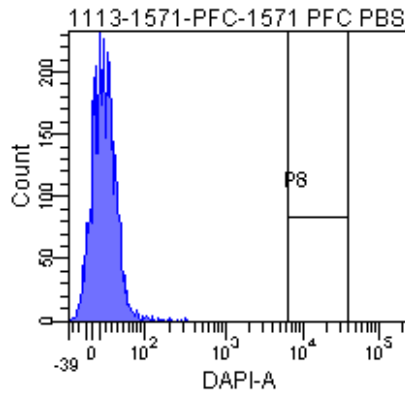
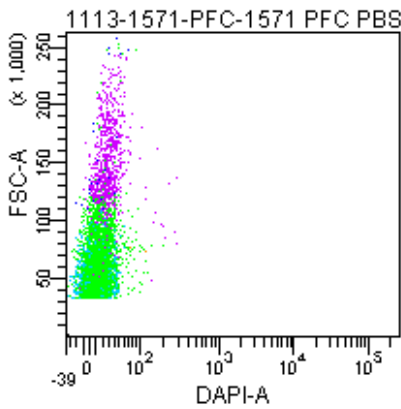
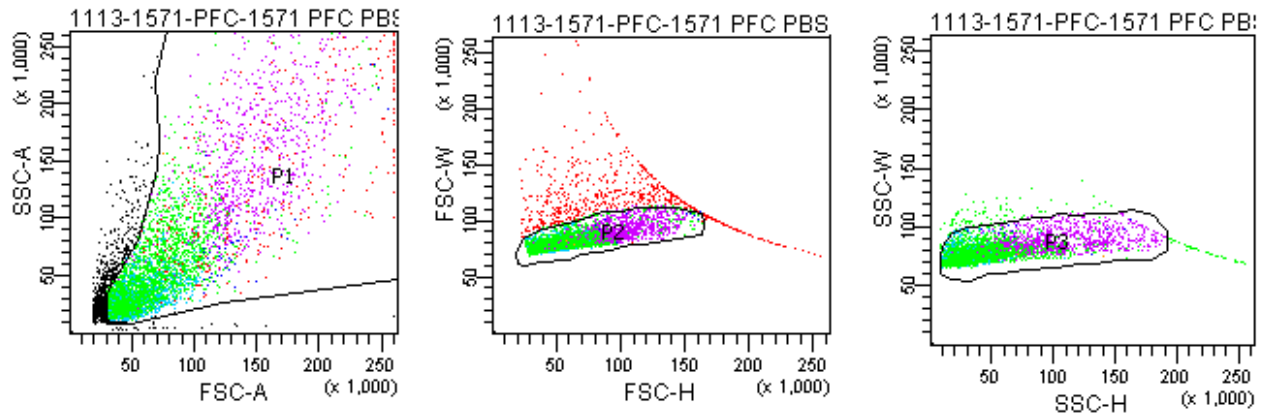


Tube: 1571 PFC PBS 500V

Population	#Events	%Parent	%Total
All Events	1,195	###	100.0
P1	1,022	85.5	85.5
P2	901	88.2	75.4
P3	867	96.2	72.6
P4	54	6.2	4.5
P5	568	65.5	47.5
P6	532	61.4	44.5
P7	44	5.1	3.7
P8	0	0.0	0.0
P9	215	24.8	18.0

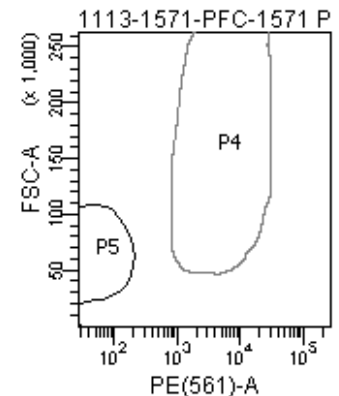
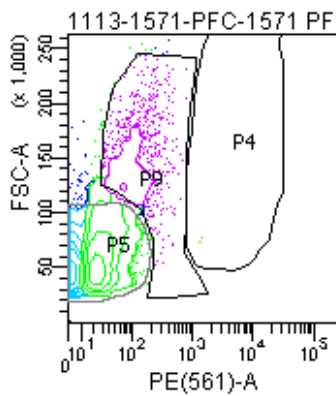


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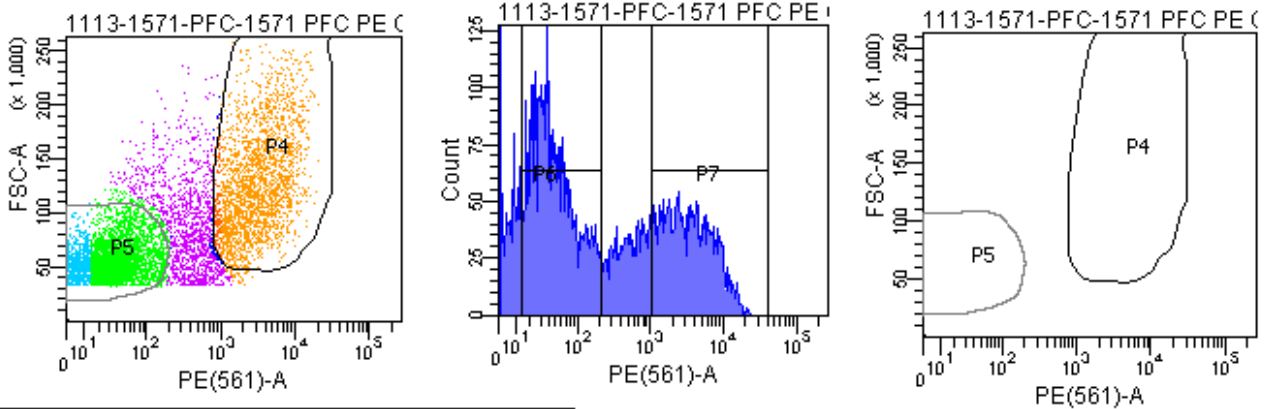
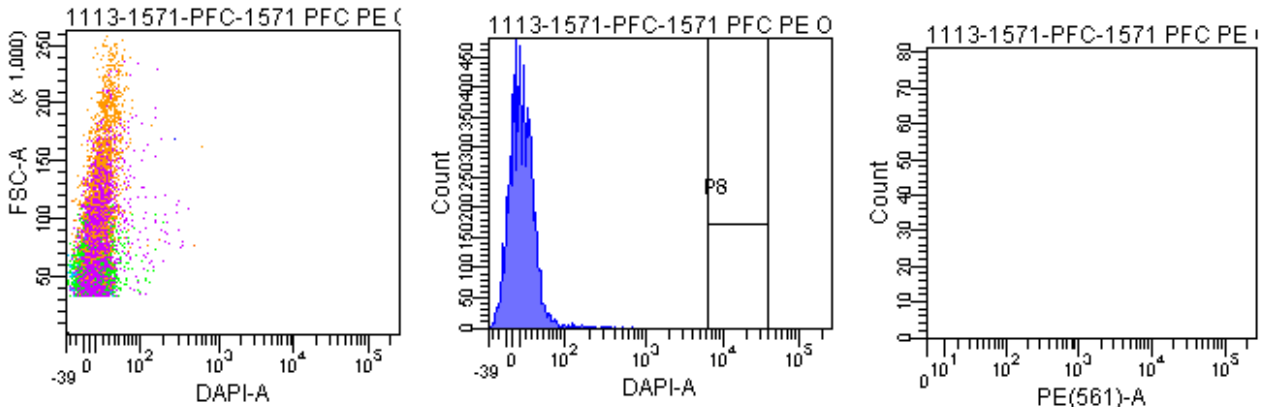
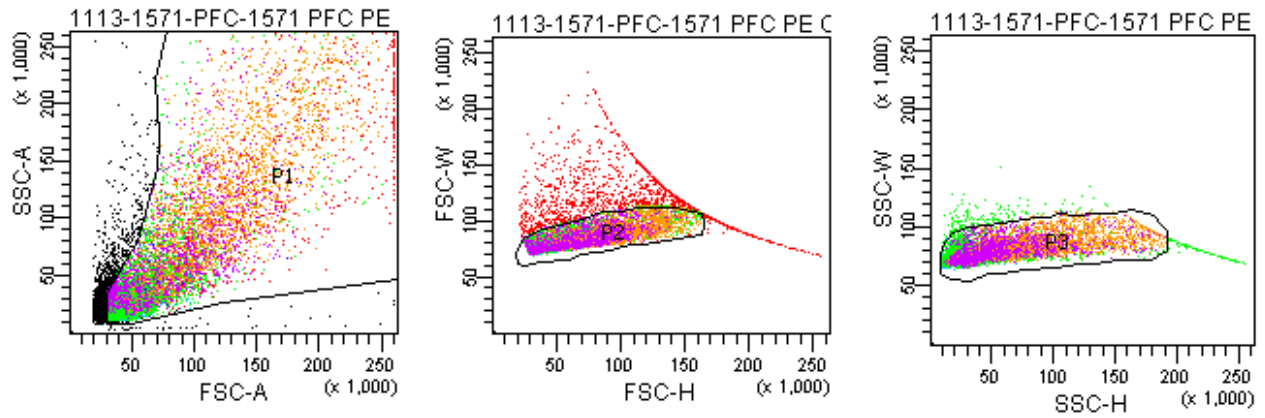


Tube: 1571 PFC PBS_400V

Population	#Events	%Parent	%Total
All Events	6,083	###	100.0
P1	5,232	86.0	86.0
P2	4,495	85.9	73.9
P3	4,345	96.7	71.4
P4	2	0.0	0.0
P5	3,413	78.6	56.1
P6	2,350	54.1	38.6
P7	2	0.0	0.0
P8	0	0.0	0.0
P9	706	16.2	11.6

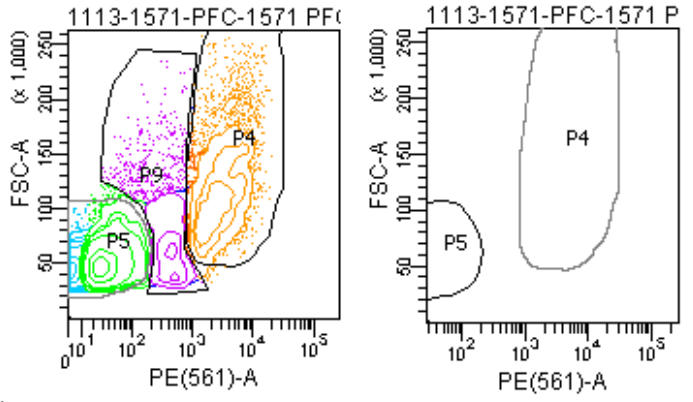


FACSDiva Version 6.1.3

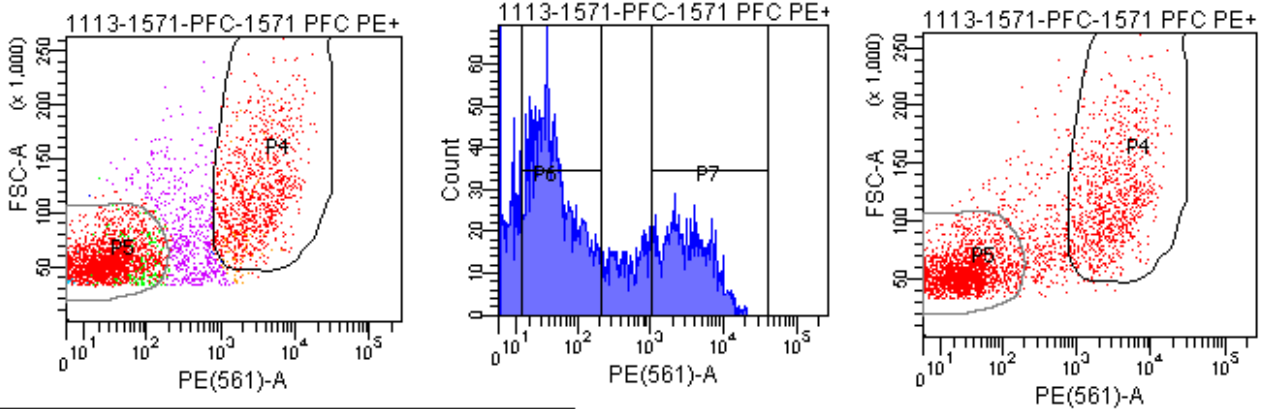
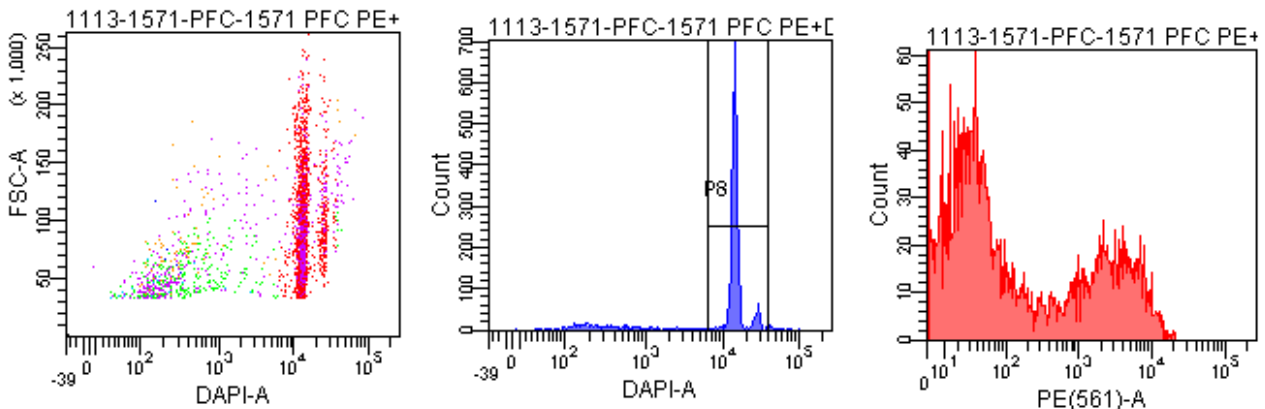
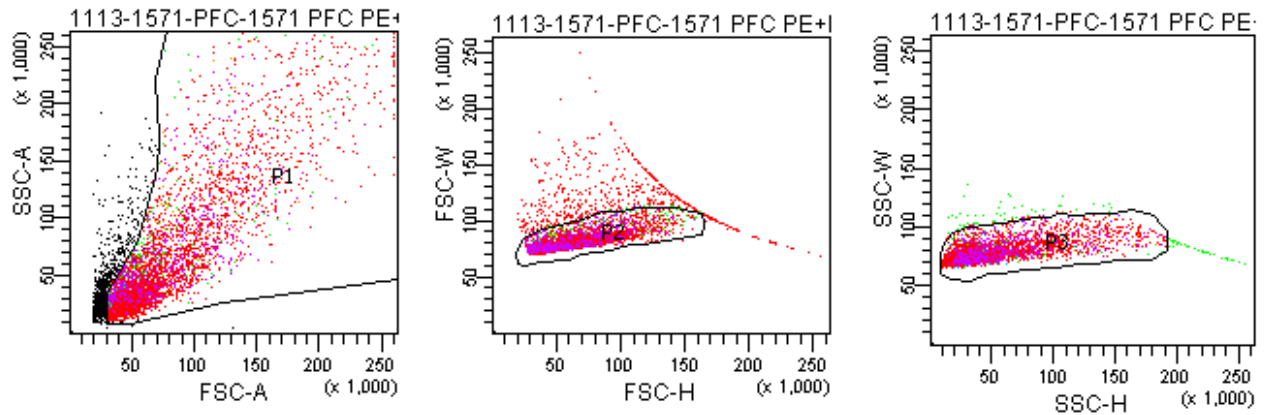


Tube: 1571 PFC PE ONLY

Population	#Events	%Parent	%Total
All Events	11,886	###	100.0
P1	10,301	86.7	86.7
P2	8,790	85.3	74.0
P3	8,473	96.4	71.3
P4	2,462	29.1	20.7
P5	4,548	53.7	38.3
P6	3,550	41.9	29.9
P7	2,372	28.0	20.0
P8	0	0.0	0.0
P9	1,235	14.6	10.4

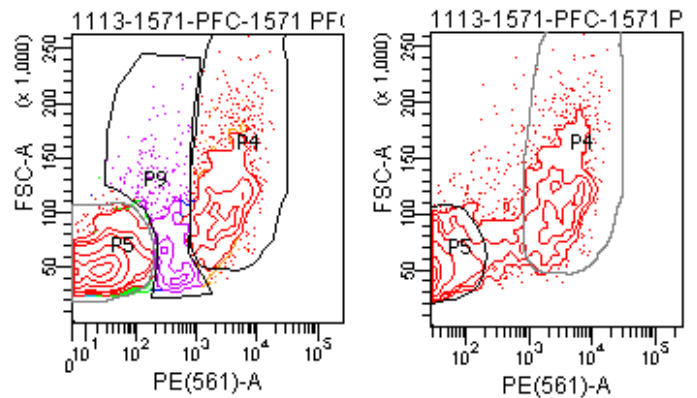


FACSDiva Version 6.1.3

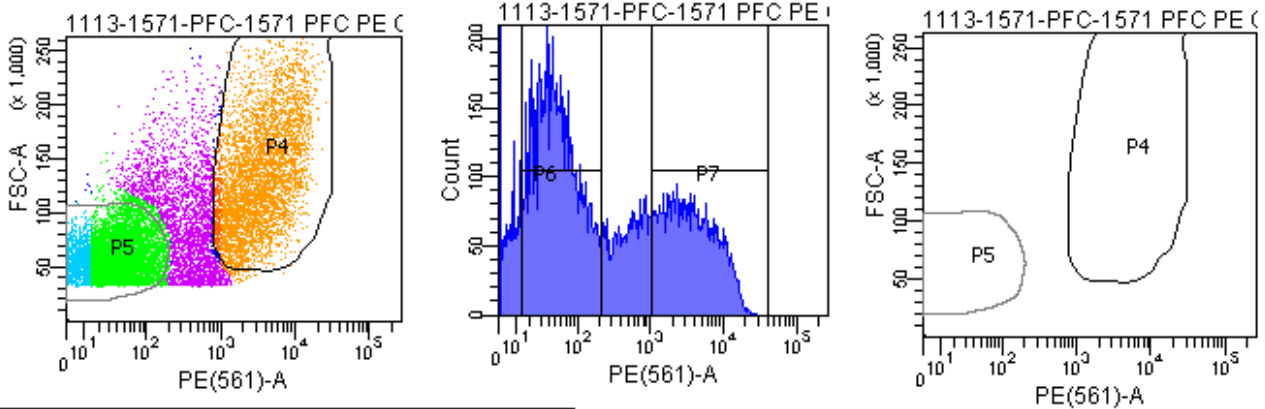
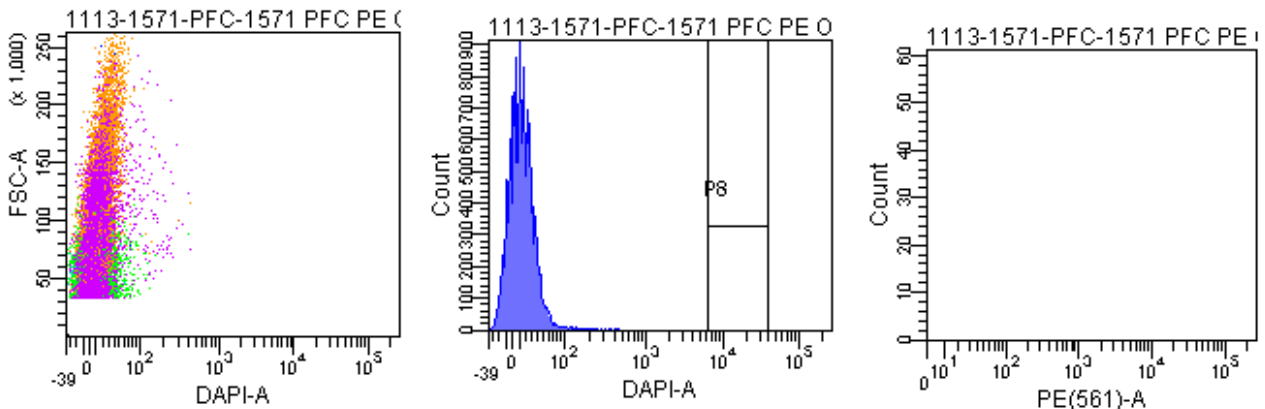
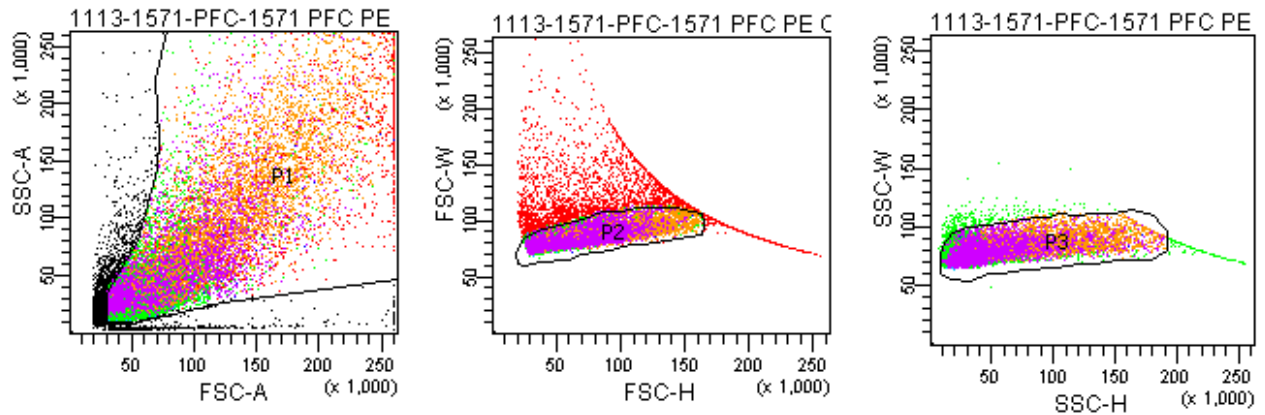


Tube: 1571 PFC PE+DAPI

Population	#Events	%Parent	%Total
All Events	5,509	###	100.0
P1	4,699	85.3	85.3
P2	4,116	87.6	74.7
P3	4,002	97.2	72.6
P4	993	24.8	18.0
P5	2,388	59.7	43.3
P6	1,844	46.1	33.5
P7	970	24.2	17.6
P8	3,366	84.1	61.1
P9	529	13.2	9.6

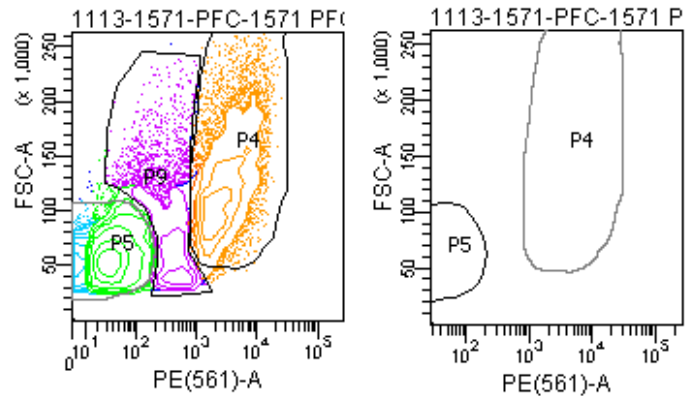


FACSDiva Version 6.1.3

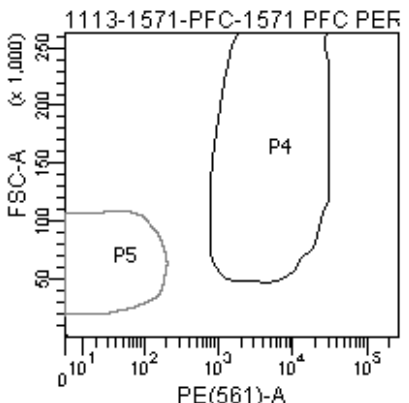
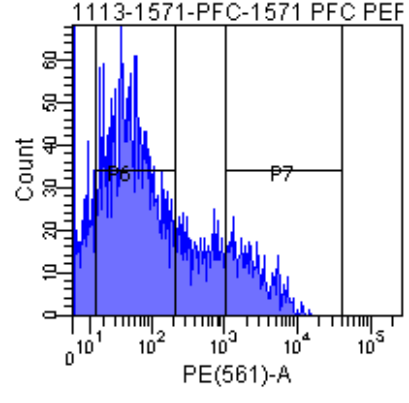
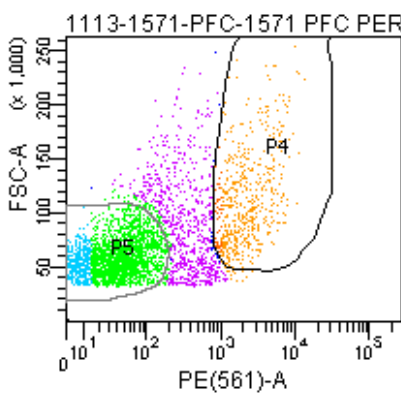
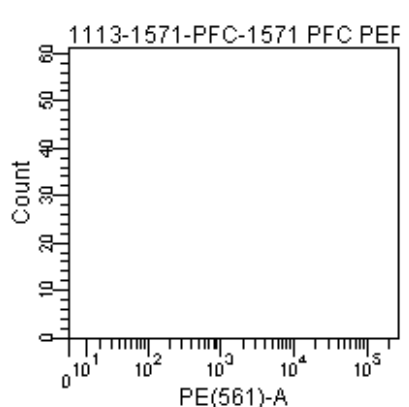
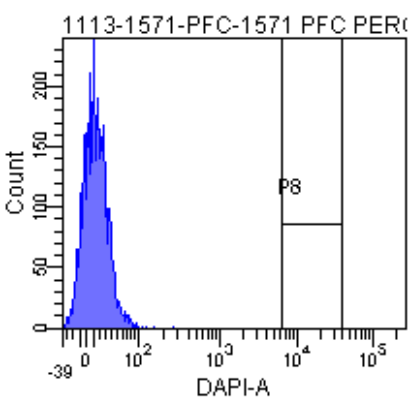
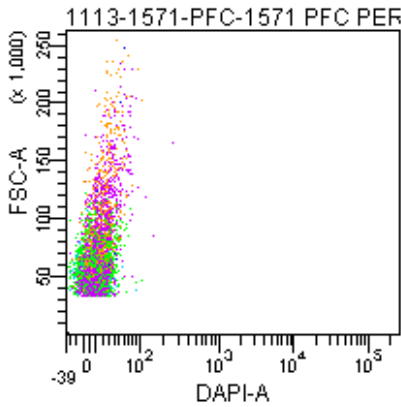
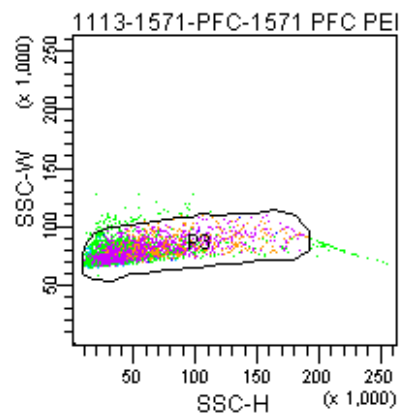
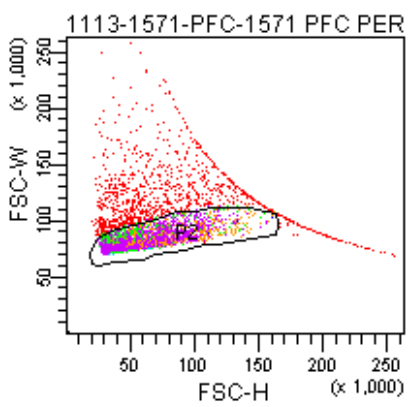
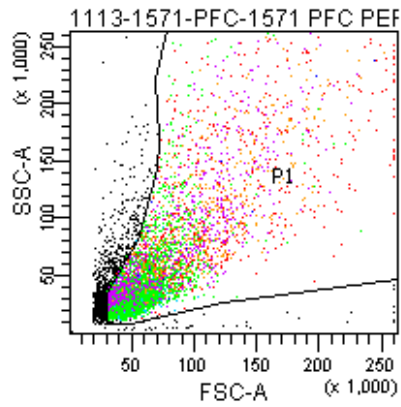


Tube: 1571 PFC PE ONLY SAMPLE

Population	#Events	%Parent	%Total
All Events	23,315	###	100.0
P1	20,000	85.8	85.8
P2	16,430	82.2	70.5
P3	15,992	97.3	68.6
P4	4,610	28.8	19.8
P5	8,262	51.7	35.4
P6	7,234	45.2	31.0
P7	4,424	27.7	19.0
P8	0	0.0	0.0
P9	2,632	16.5	11.3

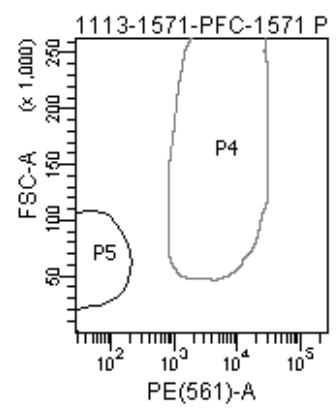
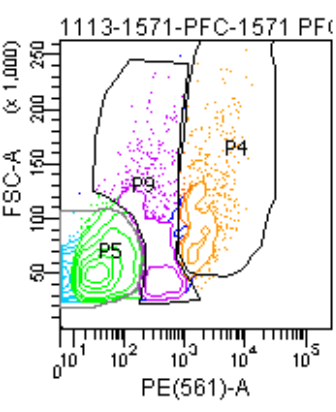


FACSDiva Version 6.1.3

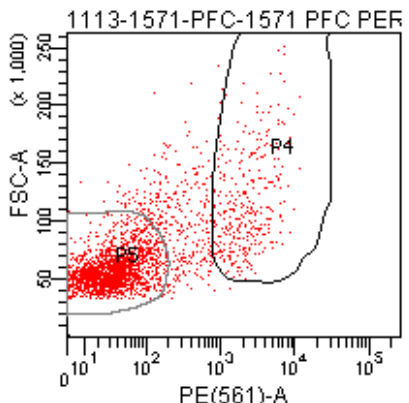
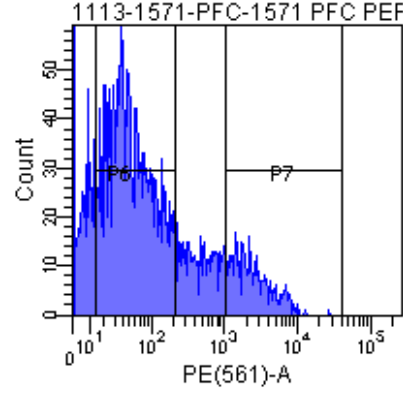
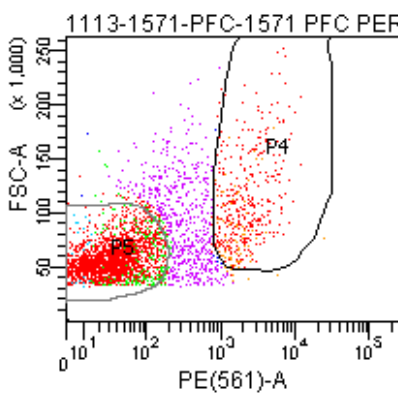
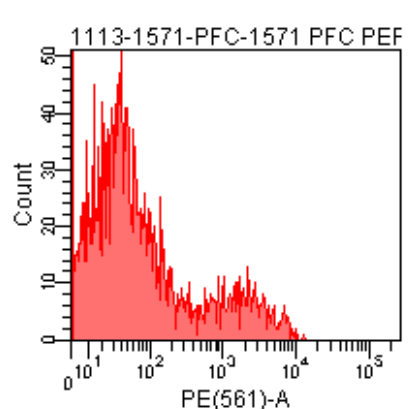
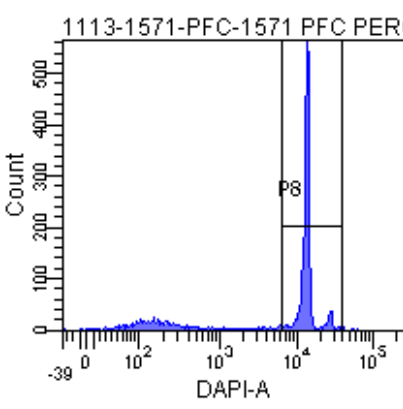
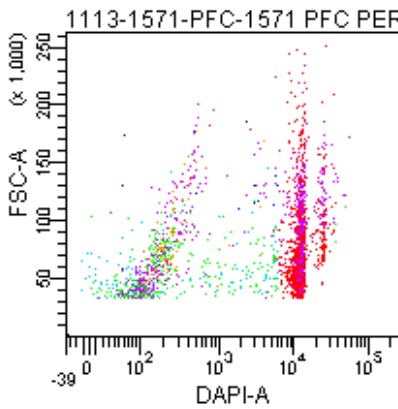
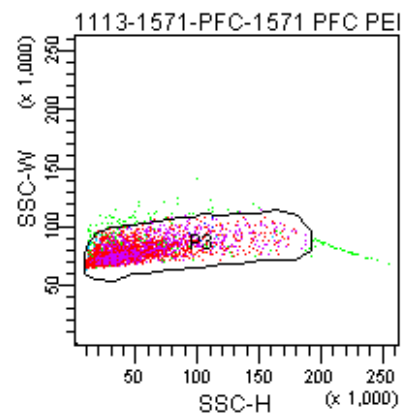
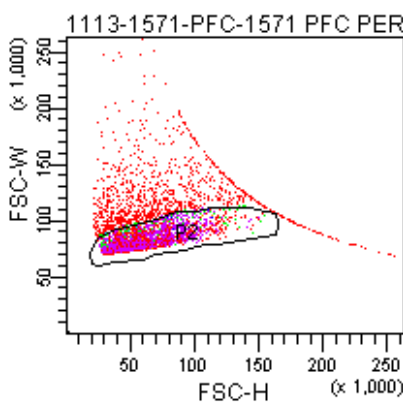
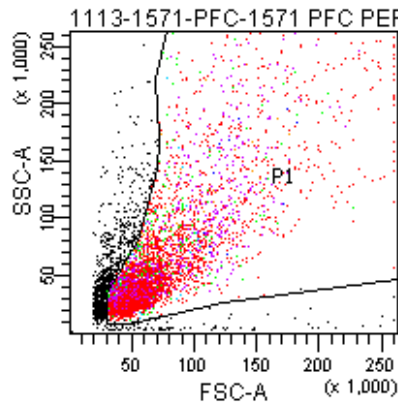


Tube: 1571 PFC PERCOLL 2 PE

Population	#Events	%Parent	%Total
All Events	6,172	###	100.0
P1	5,176	83.9	83.9
P2	4,112	79.4	66.6
P3	3,989	97.0	64.6
P4	558	14.0	9.0
P5	2,607	65.4	42.2
P6	2,212	55.5	35.8
P7	526	13.2	8.5
P8	0	0.0	0.0
P9	690	17.3	11.2

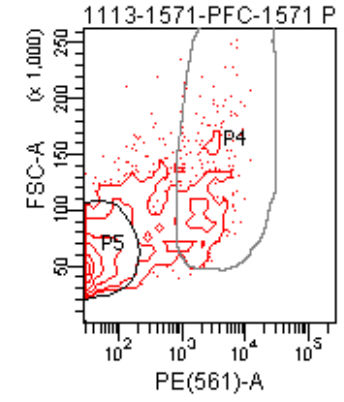
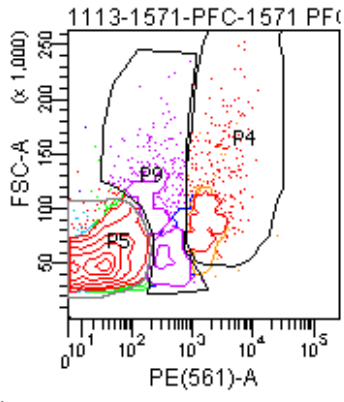


FACSDiva Version 6.1.3

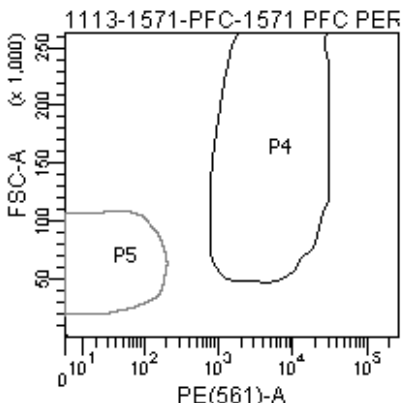
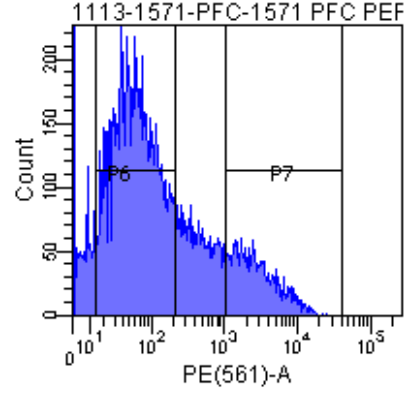
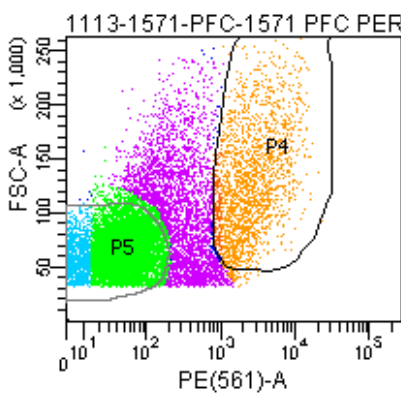
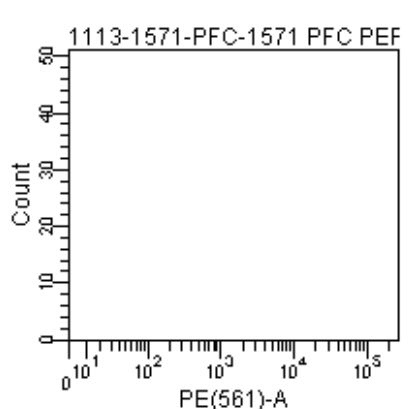
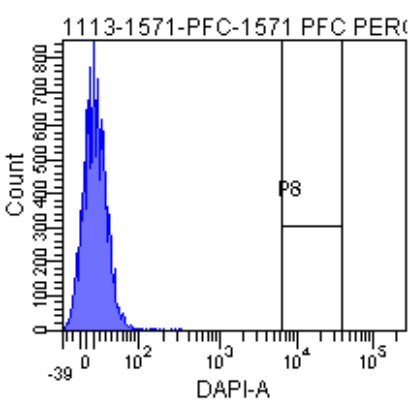
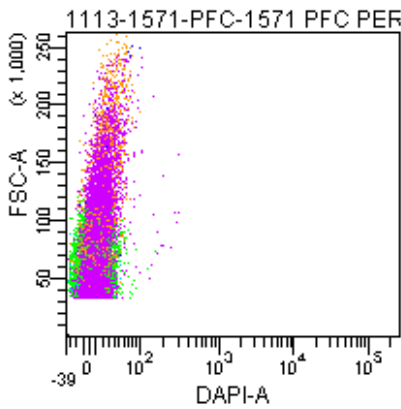
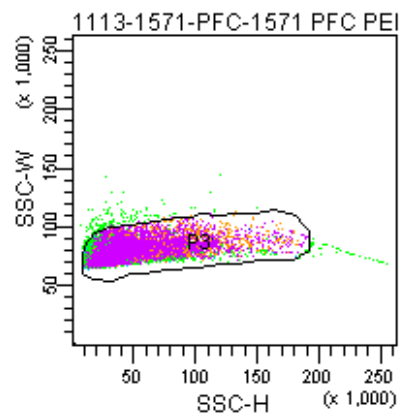
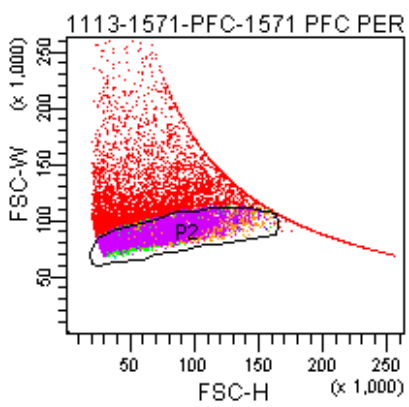
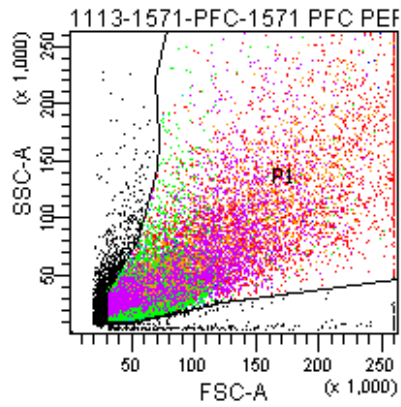


Tube: 1571 PFC PERCOLL 2 DAPI+PE

Population	#Events	%Parent	%Total
All Events	5,493	###	100.0
P1	4,498	81.9	81.9
P2	3,526	78.4	64.2
P3	3,411	96.7	62.1
P4	413	12.1	7.5
P5	2,343	68.7	42.7
P6	1,910	56.0	34.8
P7	386	11.3	7.0
P8	2,562	75.1	46.6
P9	526	15.4	9.6

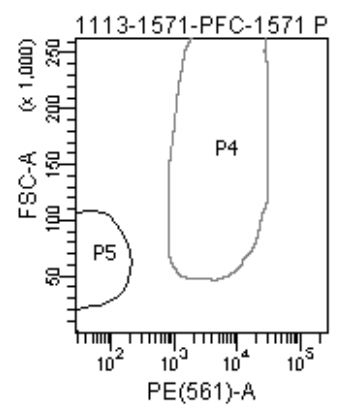
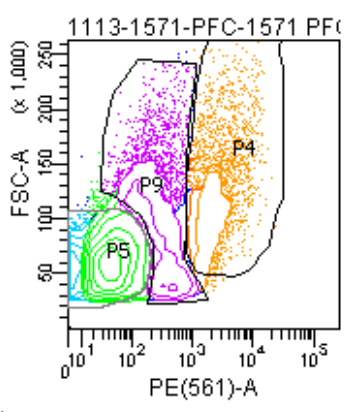


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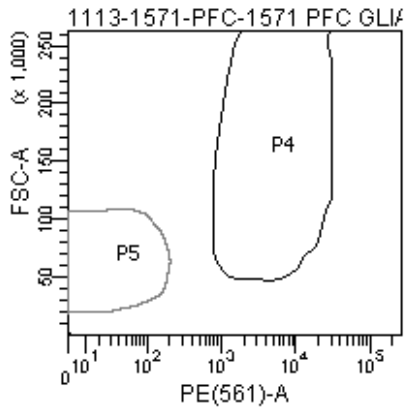
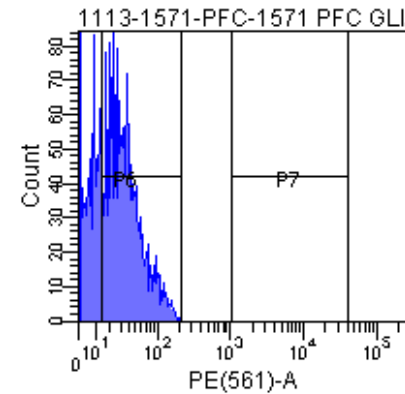
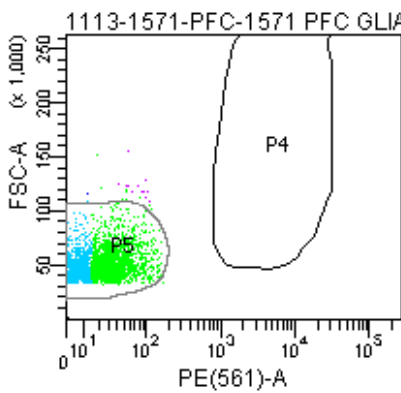
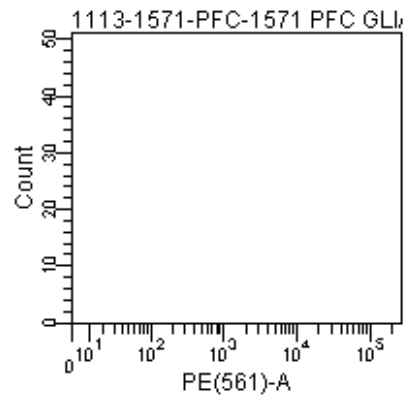
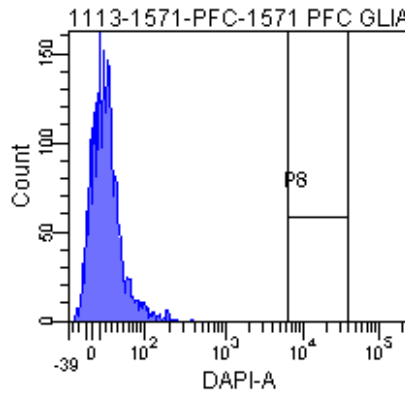
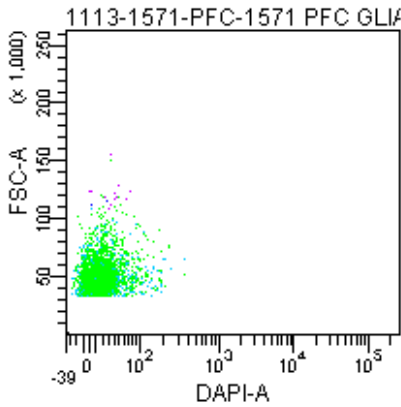
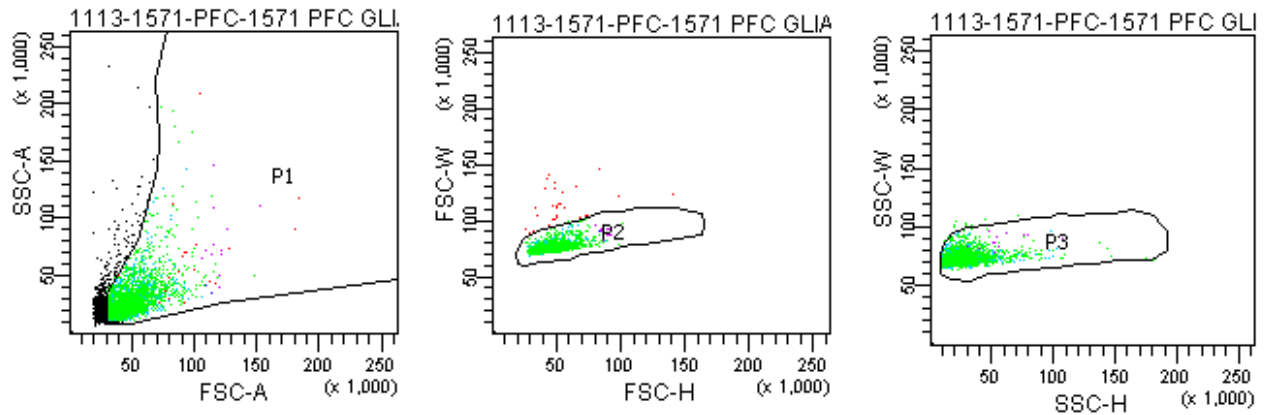


Tube: 1571 PFC PERCOLL 2 SAMPLE

Population	#Events	%Parent	%Total
All Events	22,960	###	100.0
P1	20,000	87.1	87.1
P2	14,489	72.4	63.1
P3	14,265	98.5	62.1
P4	2,051	14.4	8.9
P5	8,499	59.6	37.0
P6	8,291	58.1	36.1
P7	1,975	13.8	8.6
P8	0	0.0	0.0
P9	3,146	22.1	13.7

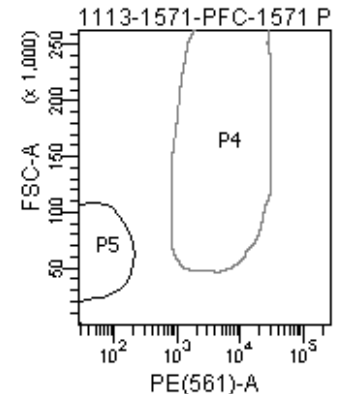
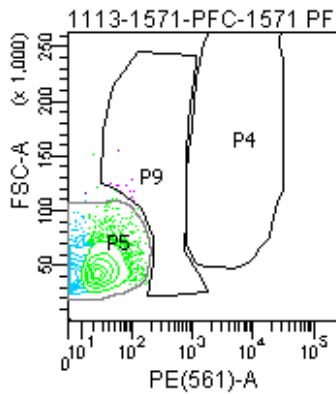


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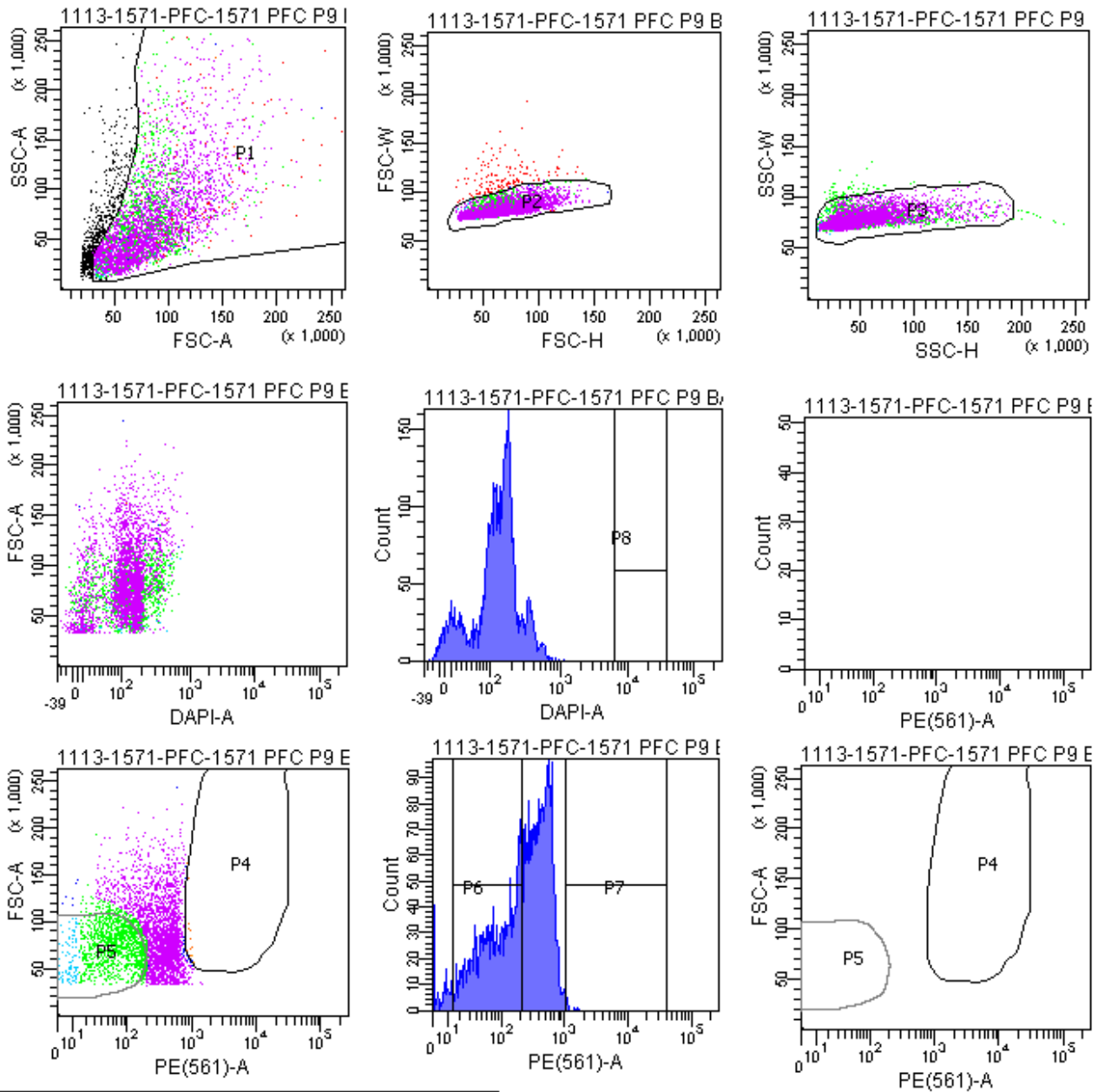


Tube: 1571 PFC GLIA BACK

Population	#Events	%Parent	%Total
All Events	3,688	###	100.0
P1	3,142	85.2	85.2
P2	3,113	99.1	84.4
P3	3,099	99.6	84.0
P4	0	0.0	0.0
P5	3,070	99.1	83.2
P6	1,697	54.8	46.0
P7	0	0.0	0.0
P8	0	0.0	0.0
P9	12	0.4	0.3

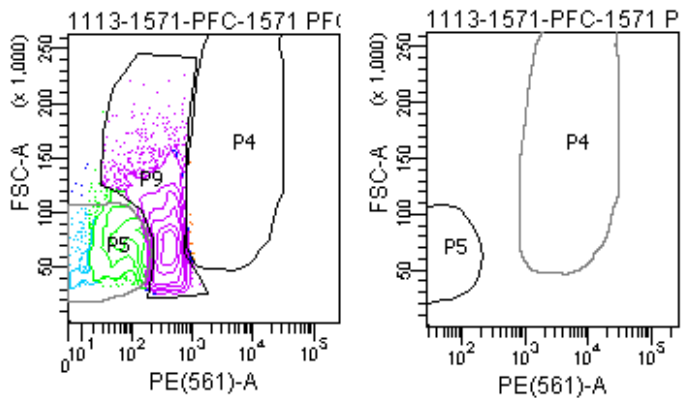


FACSDiva Version 6.1.3

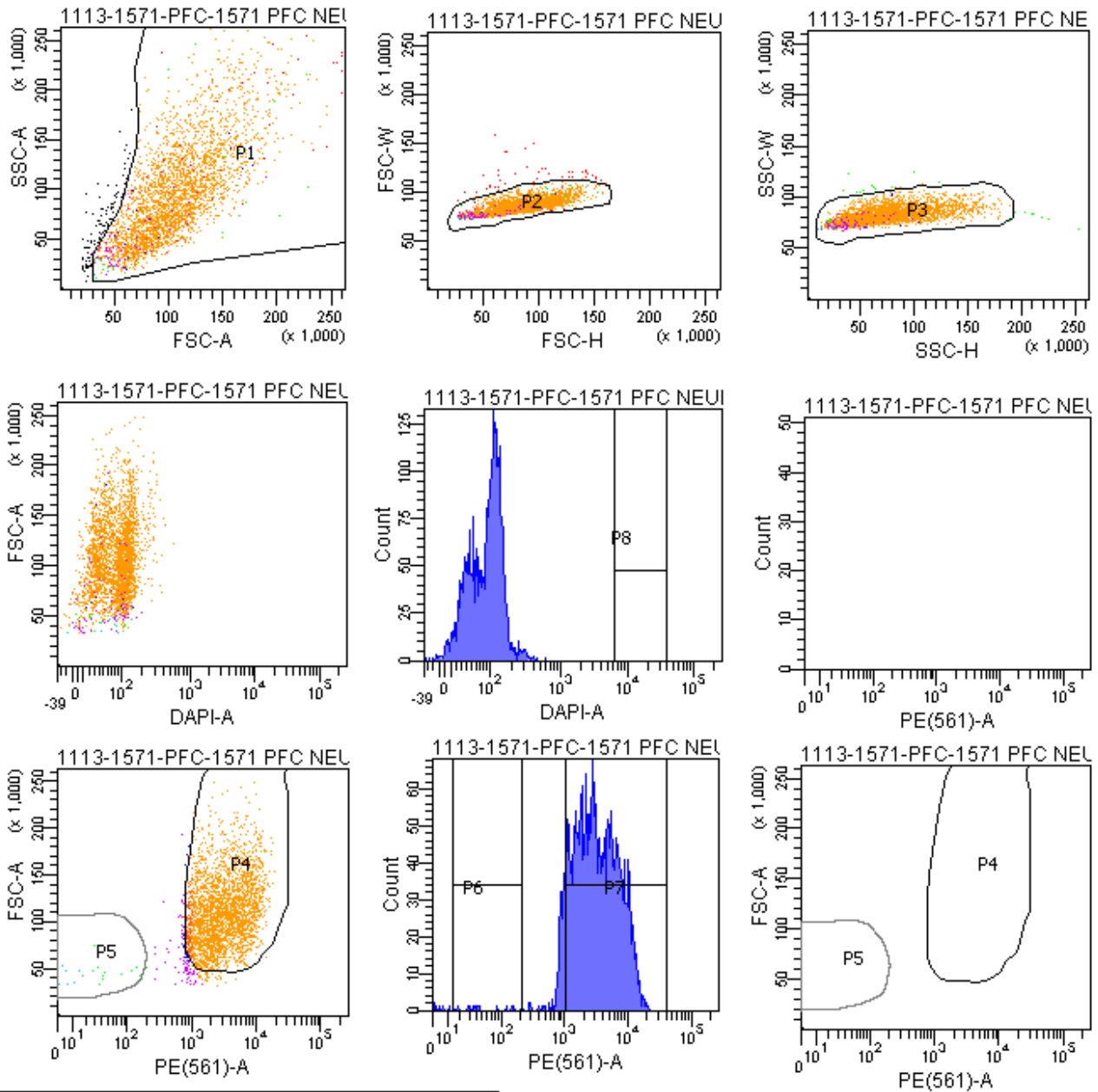


Tube: 1571 PFC P9 BACK

Population	#Events	%Parent	%Total
All Events	4,921	####	100.0
P1	4,306	87.5	87.5
P2	4,161	96.6	84.6
P3	4,090	98.3	83.1
P4	13	0.3	0.3
P5	1,241	30.3	25.2
P6	1,727	42.2	35.1
P7	6	0.1	0.1
P8	0	0.0	0.0
P9	2,576	63.0	52.3

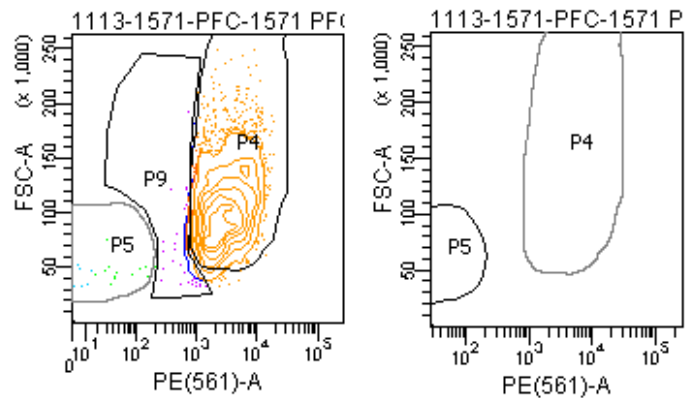


FACSDiva Version 6.1.3



Tube: 1571 PFC NEURON BACK

Population	#Events	%Parent	%Total
All Events	3,149	###	100.0
P1	3,051	96.9	96.9
P2	3,002	98.4	95.3
P3	2,982	99.3	94.7
P4	2,811	94.3	89.3
P5	20	0.7	0.6
P6	13	0.4	0.4
P7	2,709	90.8	86.0
P8	0	0.0	0.0
P9	67	2.2	2.1

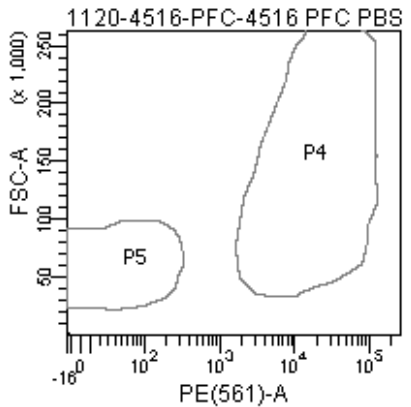
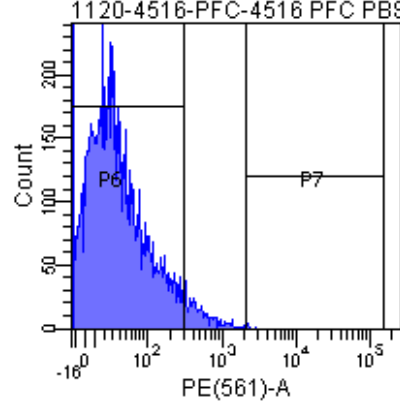
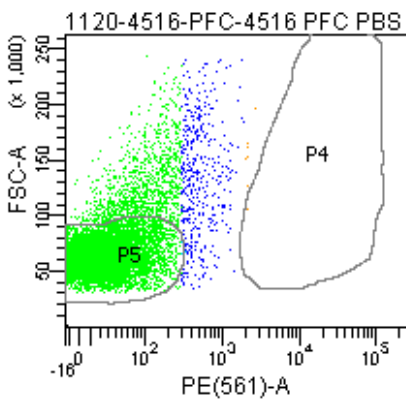
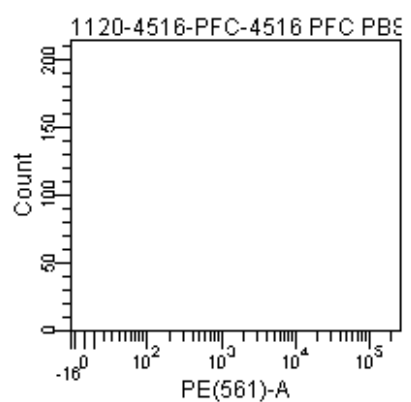
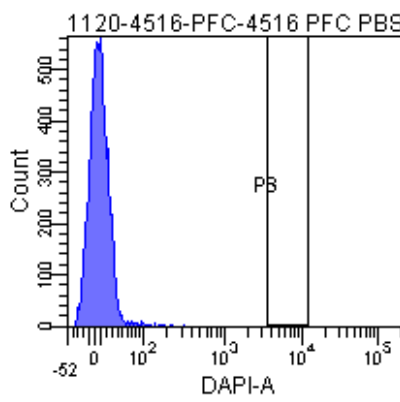
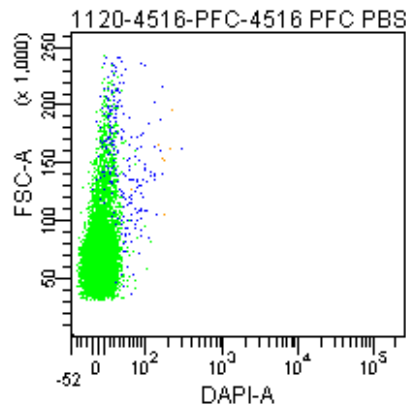
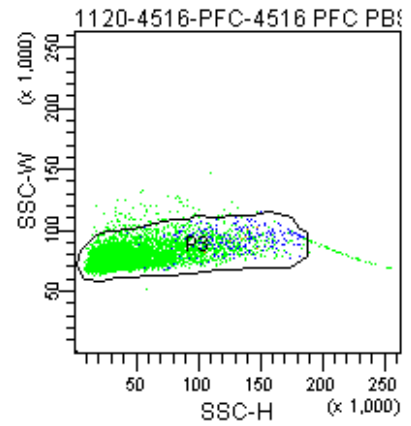
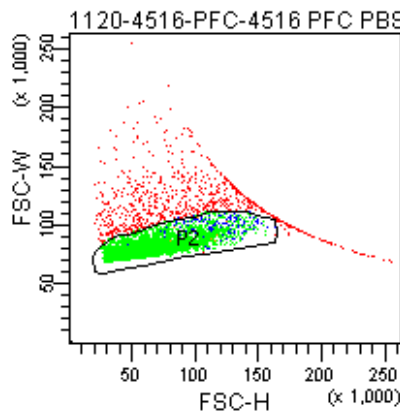
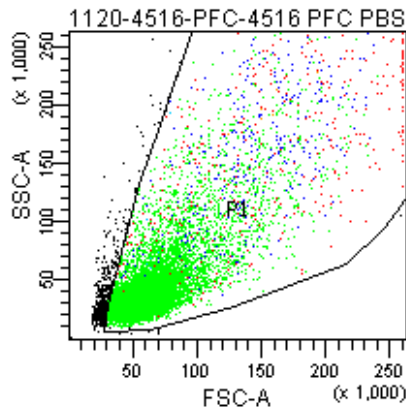


The BD Arial II FACS sorting reports of UMB#4516

Sample: prefrontal cortex

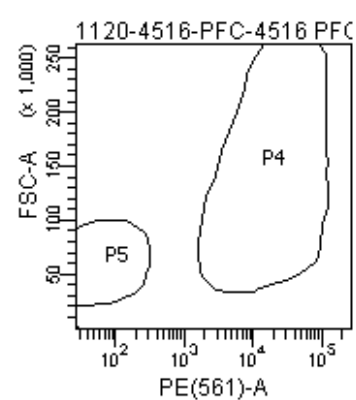
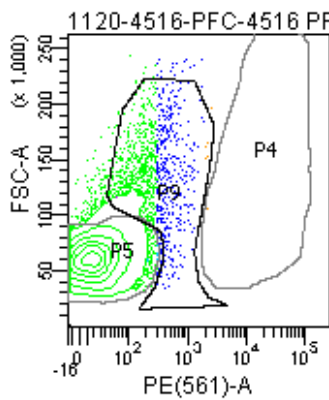
Category: Rett patient

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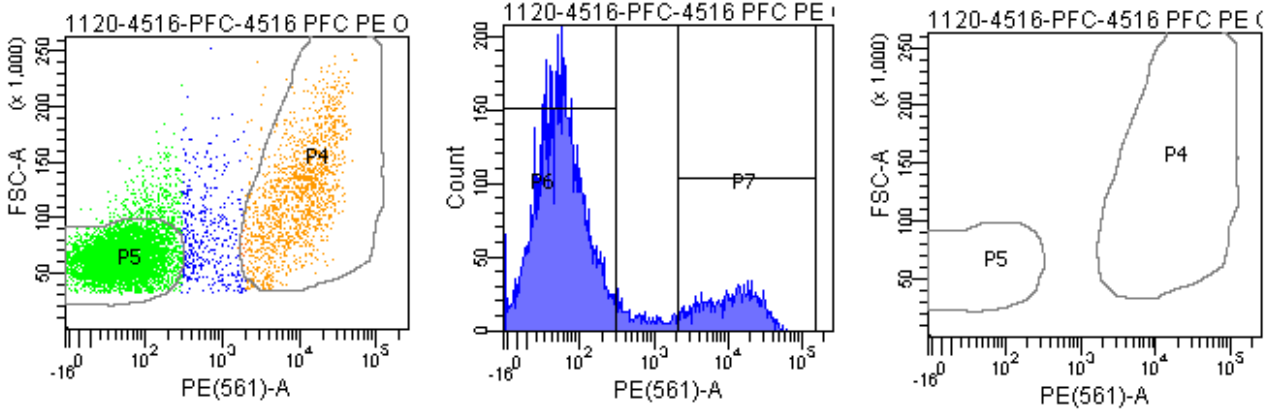
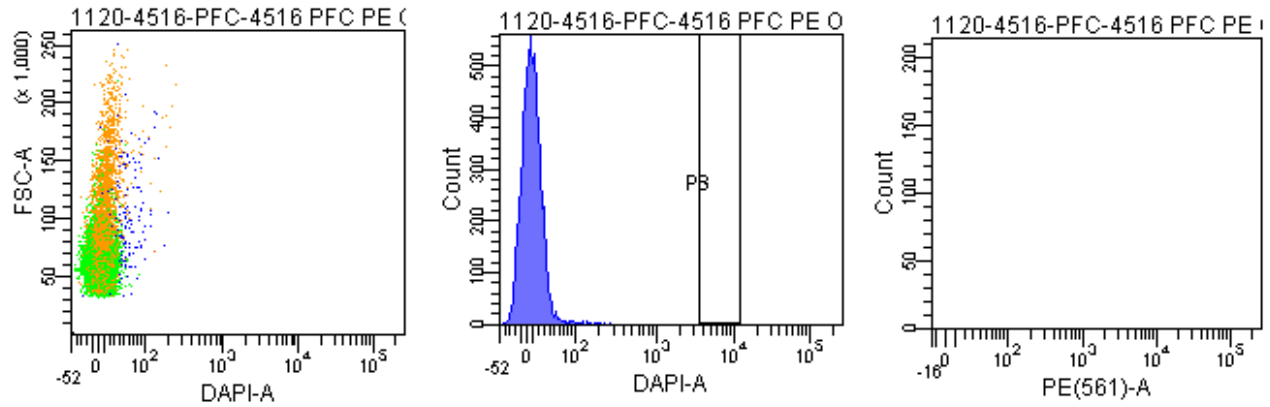
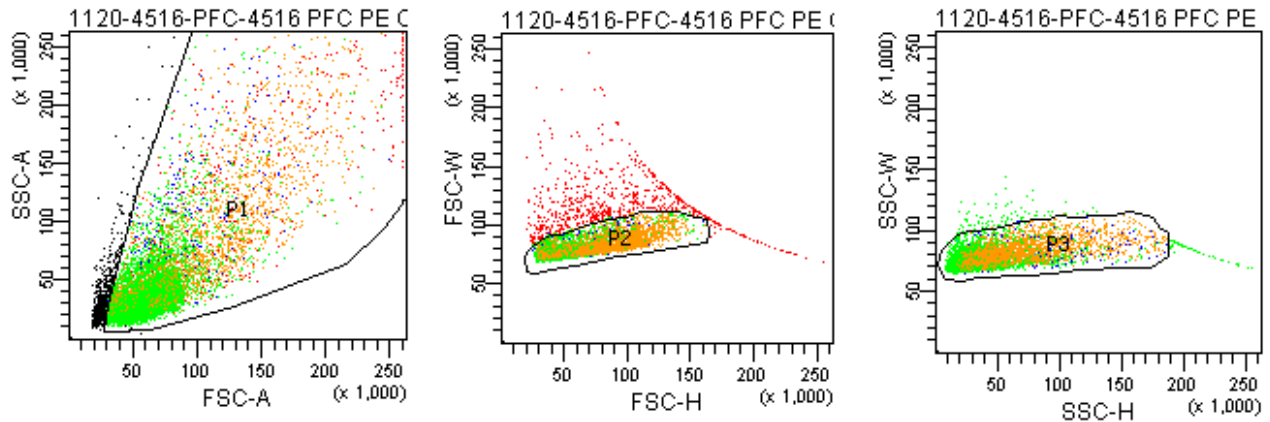


Tube: 4516 PFC PBS CONTROL

Population	#Events	%Parent	%Total
All Events	10,656	###	100.0
P1	10,026	94.1	94.1
P2	9,237	92.1	86.7
P3	9,094	98.5	85.3
P4	1	0.0	0.0
P5	7,662	84.3	71.9
P6	8,658	95.2	81.2
P7	7	0.1	0.1
P8	0	0.0	0.0
P9	1,107	12.2	10.4

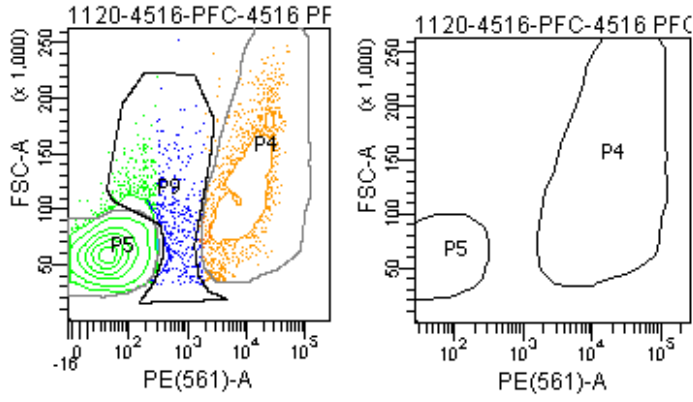


FACSDiva Version 6.1.3

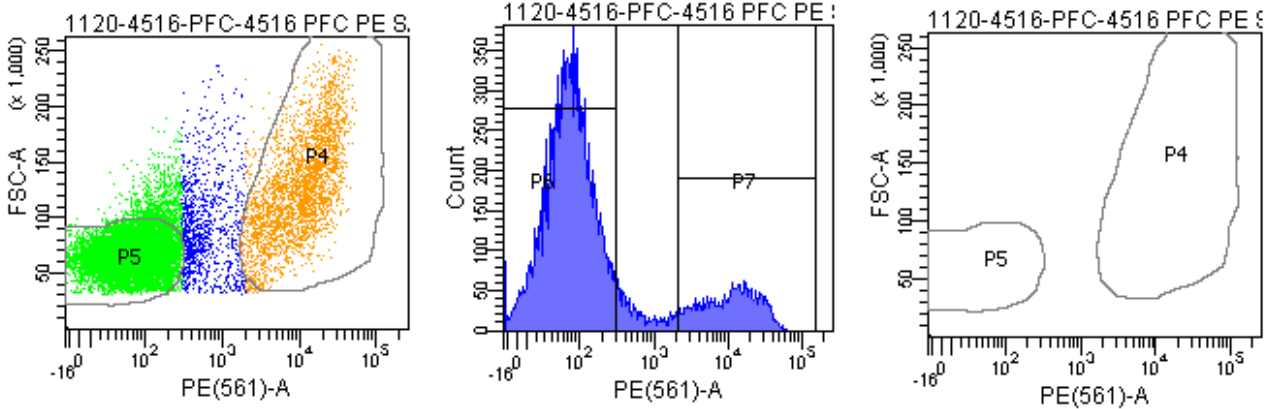
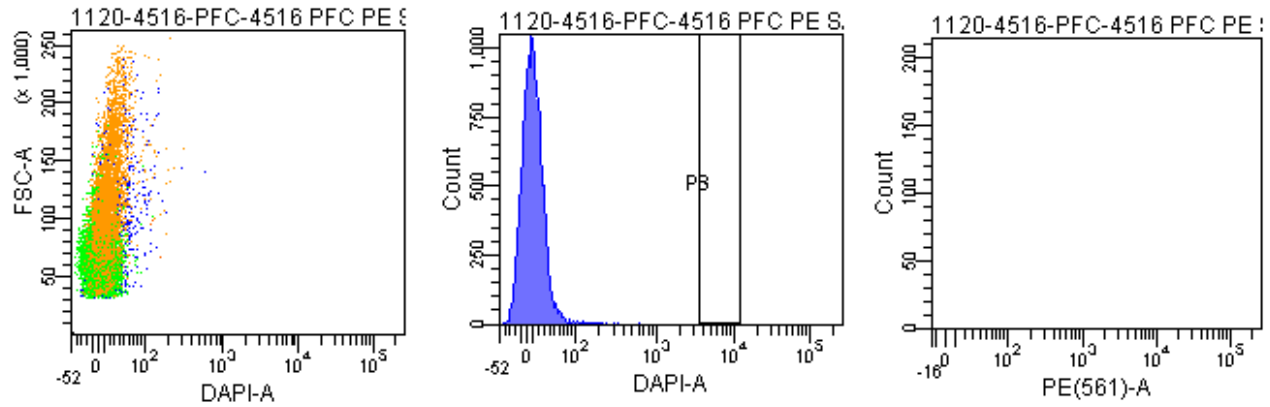
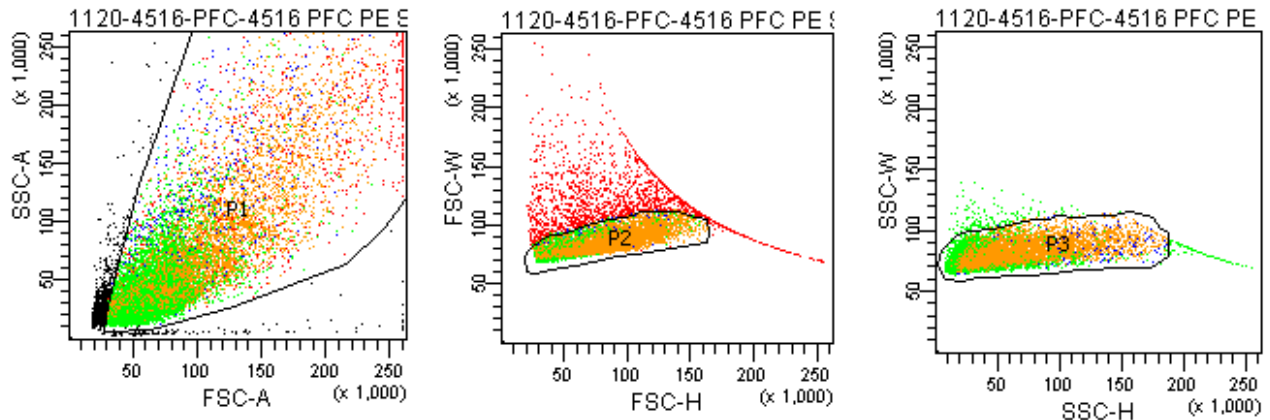


Tube: 4516 PFC PE ONLY CONTROL

Population	#Events	%Parent	%Total
All Events	10,485	###	100.0
P1	9,866	94.1	94.1
P2	9,196	93.2	87.7
P3	9,048	98.4	86.3
P4	1,399	15.5	13.3
P5	6,903	76.3	65.8
P6	7,202	79.6	68.7
P7	1,413	15.6	13.5
P8	0	0.0	0.0
P9	603	6.7	5.8

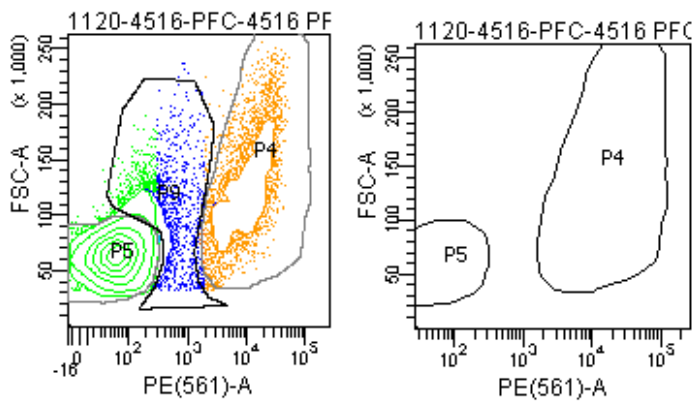


FACSDiva Version 6.1.3

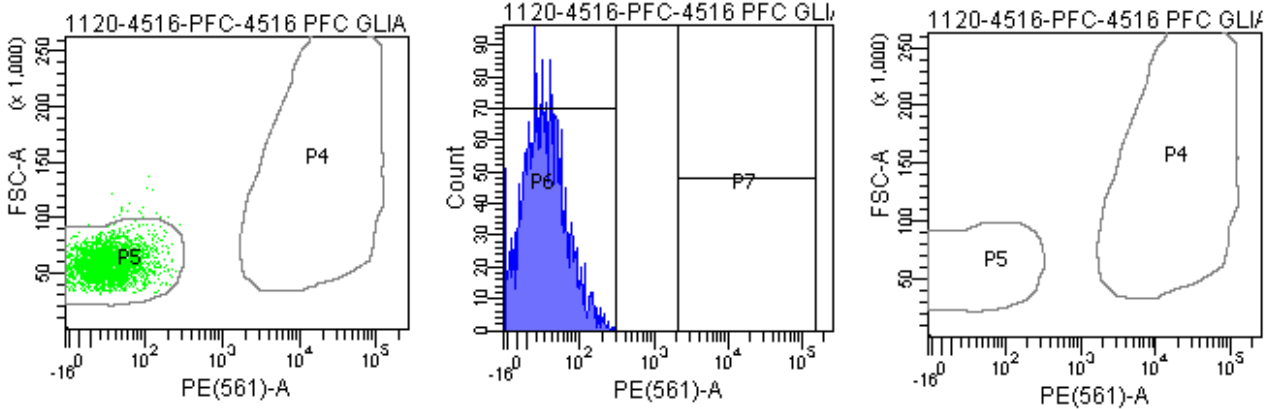
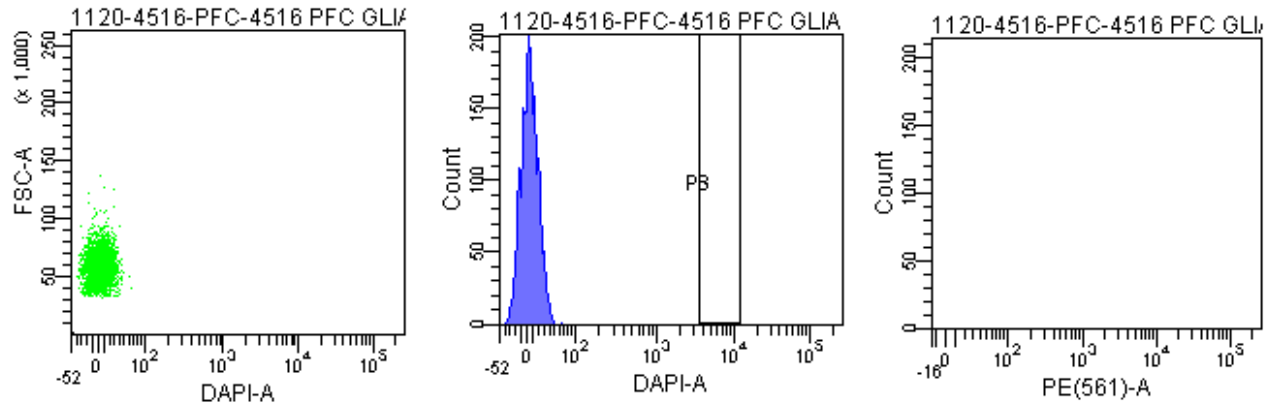
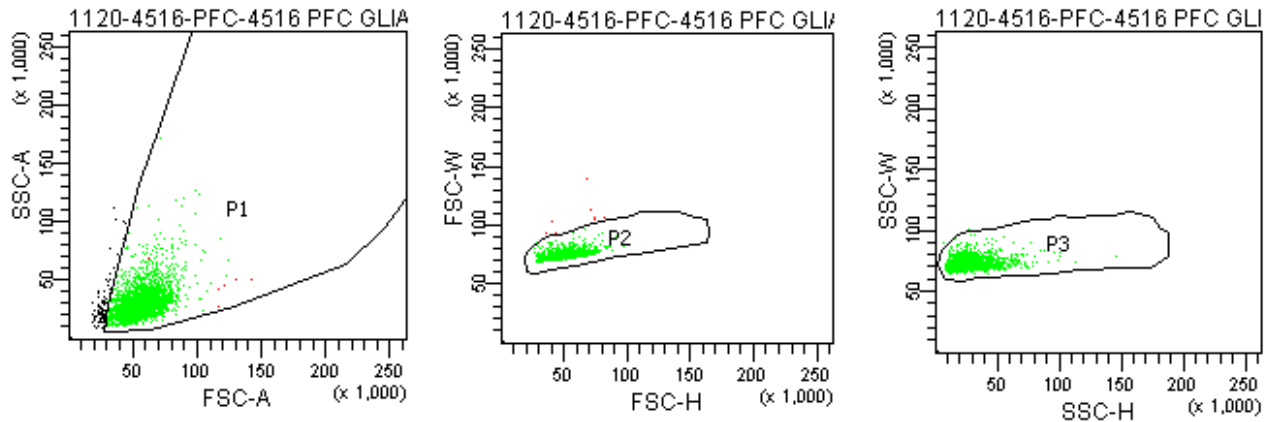


Tube: 4516 PFC PE SAMPLE

Population	#Events	%Parent	%Total
All Events	21,013	###	100.0
P1	20,000	95.2	95.2
P2	18,205	91.0	86.6
P3	17,966	98.7	85.5
P4	2,808	15.6	13.4
P5	13,366	74.4	63.6
P6	14,065	78.3	66.9
P7	2,843	15.8	13.5
P8	0	0.0	0.0
P9	1,537	8.6	7.3

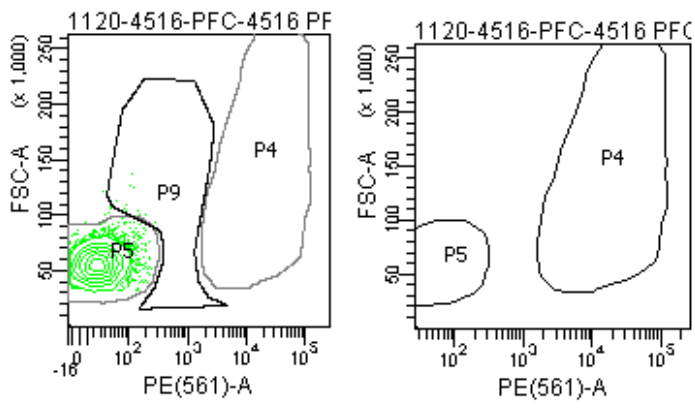


FACSDiva Version 6.1.3

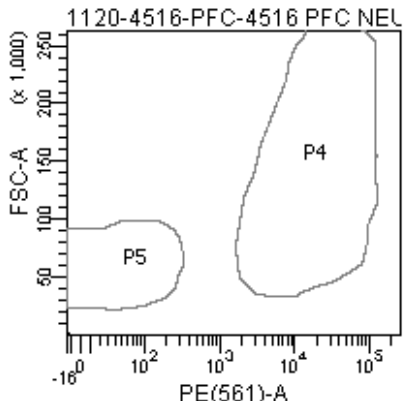
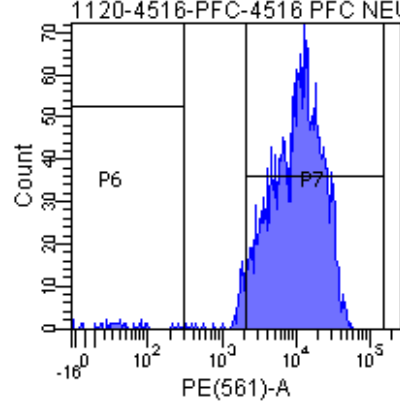
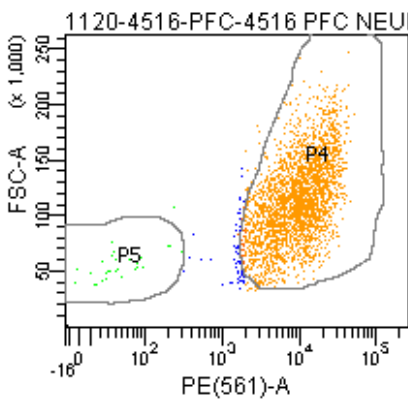
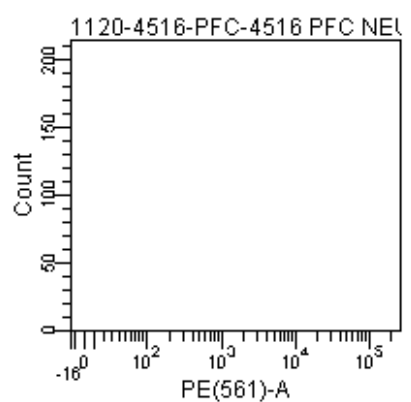
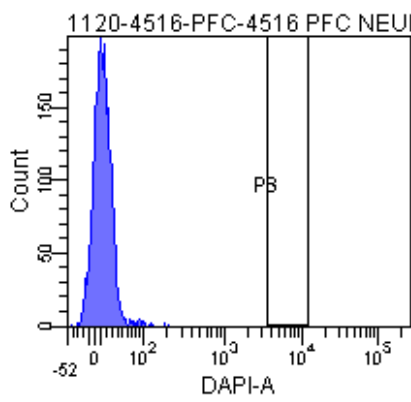
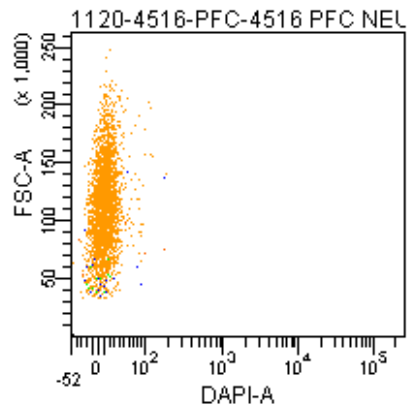
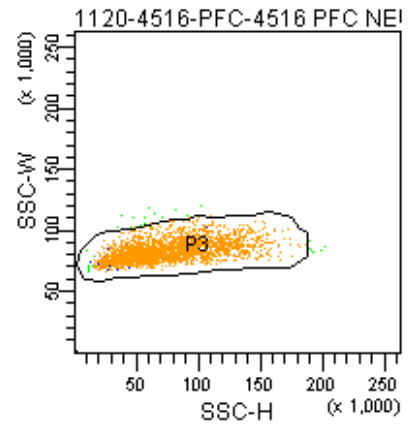
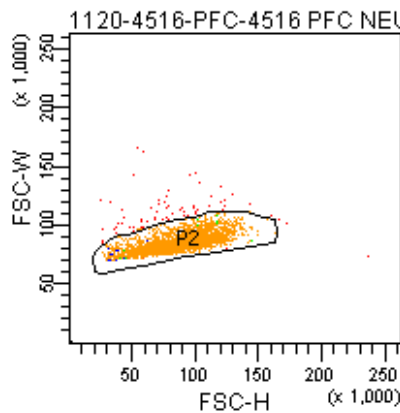
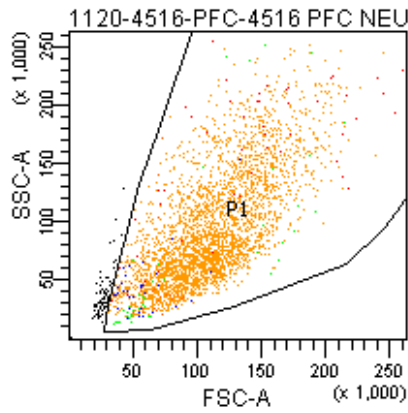


Tube: 4516 PFC GLIA BACK

Population	#Events	%Parent	%Total
All Events	2,964	###	100.0
P1	2,864	96.6	96.6
P2	2,856	99.7	96.4
P3	2,854	99.9	96.3
P4	0	0.0	0.0
P5	2,835	99.3	95.6
P6	2,854	100.0	96.3
P7	0	0.0	0.0
P8	0	0.0	0.0
P9	11	0.4	0.4

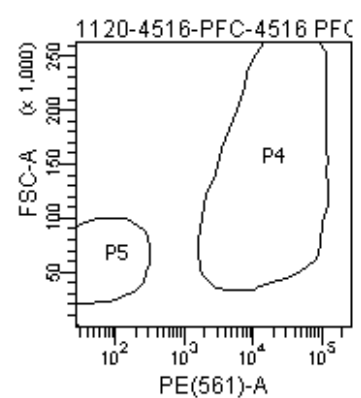
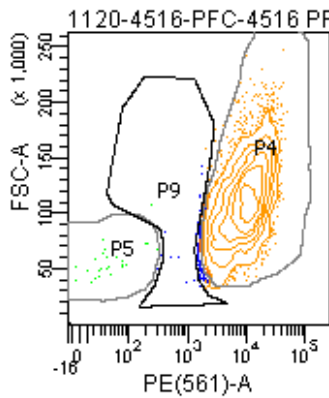


FACSDiva Version 6.1.3



Tube: 4516 PFC NEURON BACK

Population	#Events	%Parent	%Total
All Events	3,072	###	100.0
P1	2,984	97.1	97.1
P2	2,918	97.8	95.0
P3	2,899	99.3	94.4
P4	2,787	96.1	90.7
P5	29	1.0	0.9
P6	30	1.0	1.0
P7	2,778	95.8	90.4
P8	0	0.0	0.0
P9	20	0.7	0.7

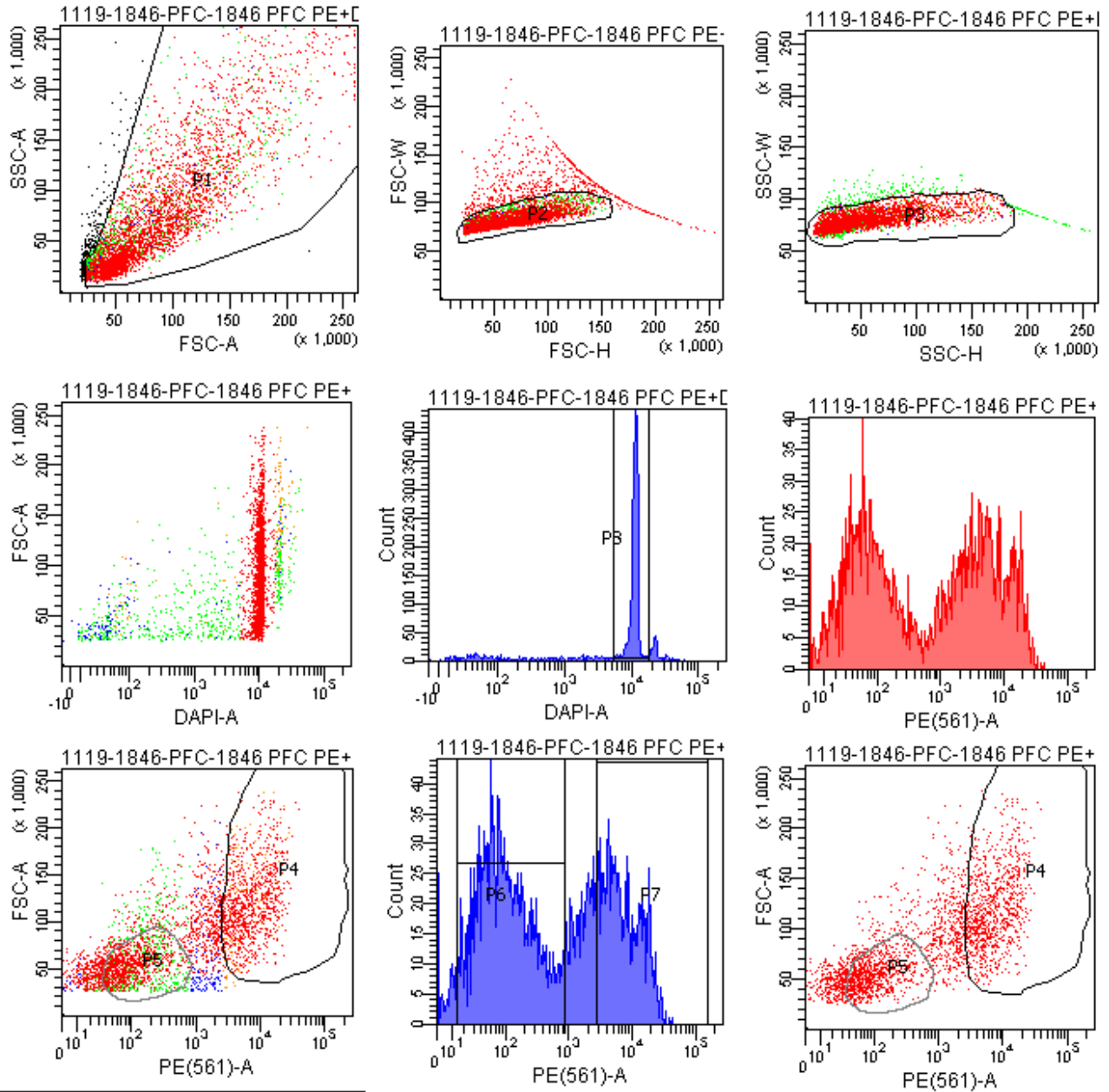


The BD Arial II FACS sorting reports of UMB#1846

Sample: prefrontal cortex

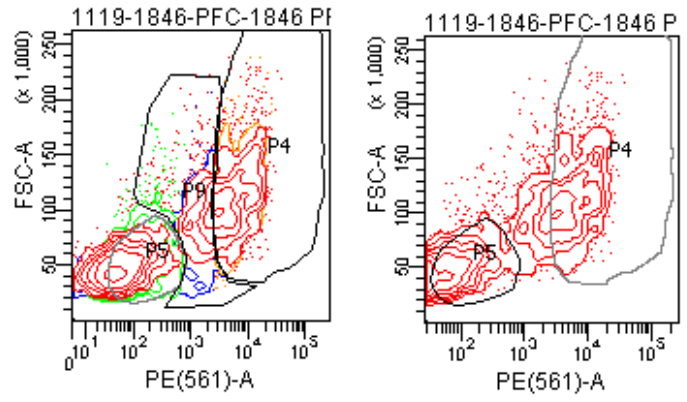
Category: healthy control

FACSDiva Version 6.1.3

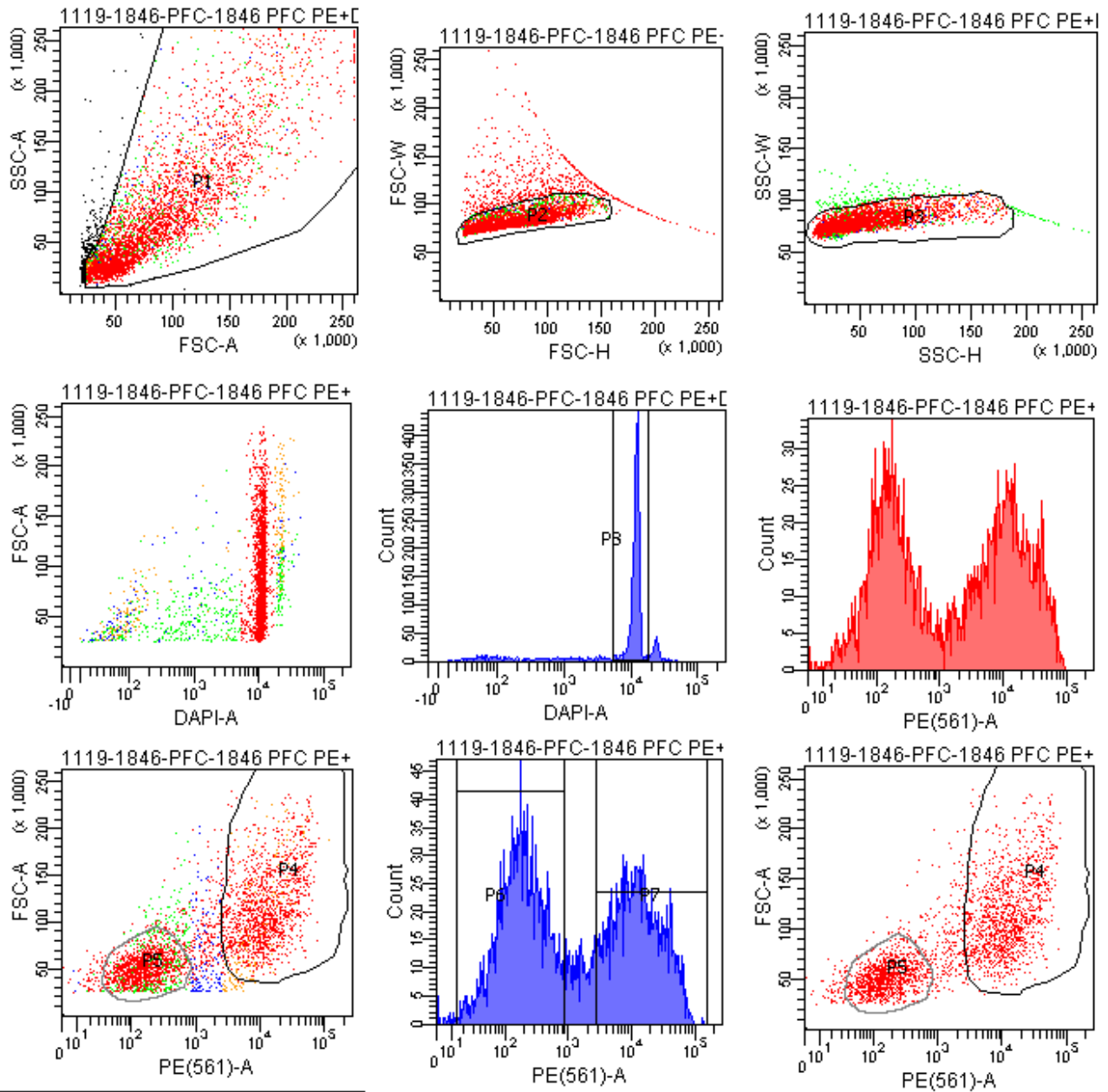


Tube: 1846 PFC PE+DAPI 400V

Population	#Events	%Parent	%Total
All Events	4,559	###	100.0
P1	4,289	94.1	94.1
P2	3,664	85.4	80.4
P3	3,467	94.6	76.0
P4	1,056	30.5	23.2
P5	1,189	34.3	26.1
P6	1,778	51.3	39.0
P7	1,059	30.5	23.2
P8	2,671	77.0	58.6
P9	653	18.8	14.3

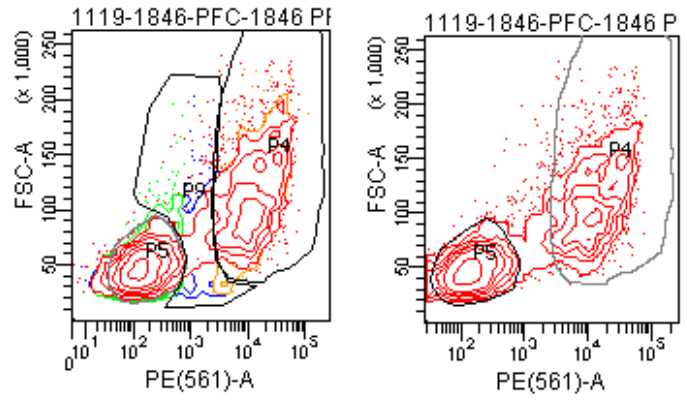


FACSDiva Version 6.1.3

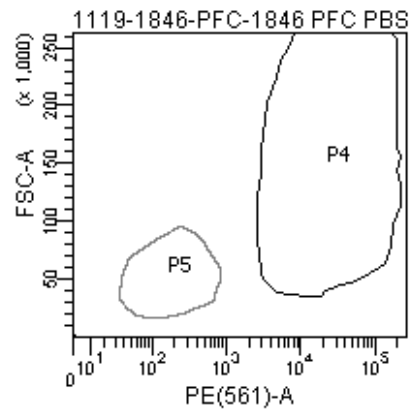
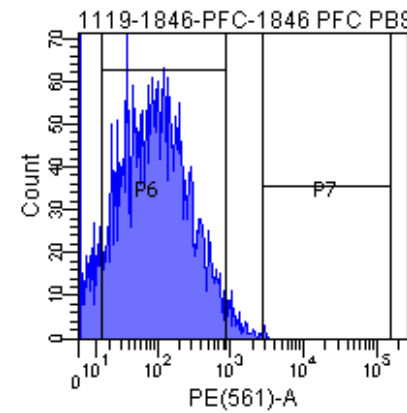
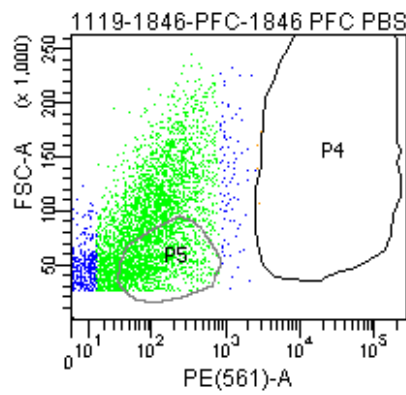
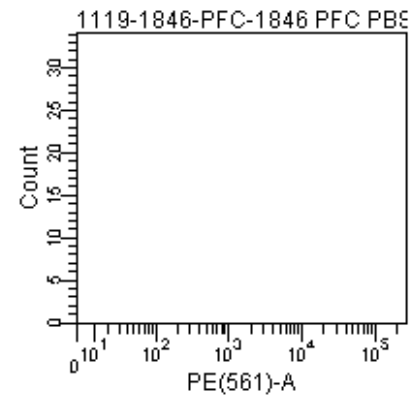
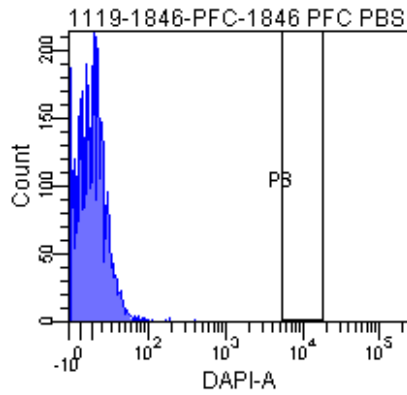
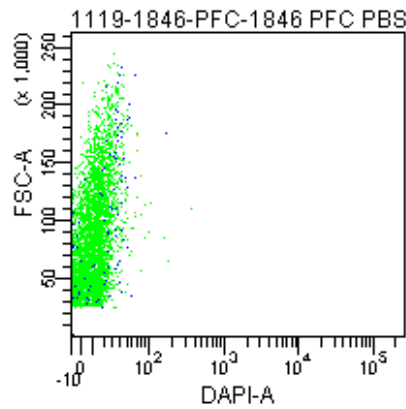
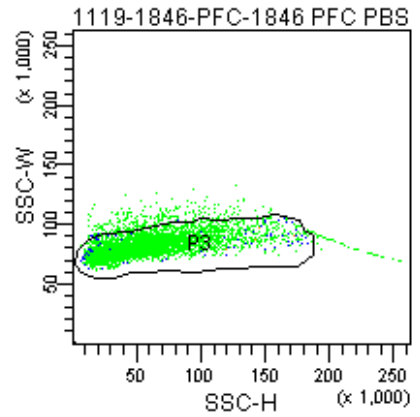
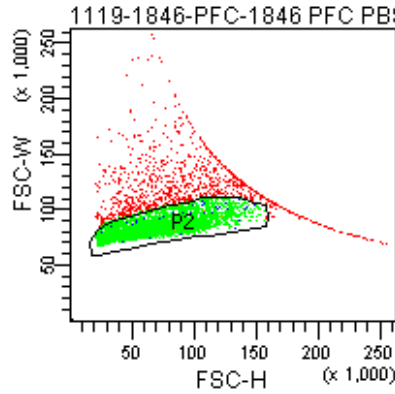
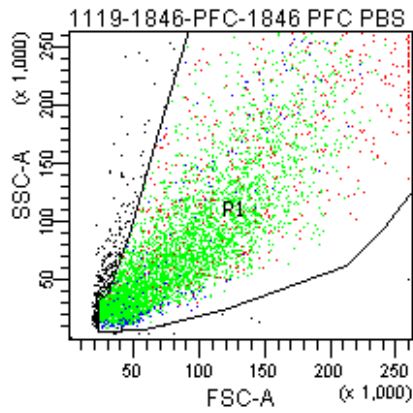


Tube: 1846 PFC PE+DAPI 457V

Population	#Events	%Parent	%Total
All Events	4,480	###	100.0
P1	4,218	94.2	94.2
P2	3,577	84.8	79.8
P3	3,398	95.0	75.8
P4	1,416	41.7	31.6
P5	1,414	41.6	31.6
P6	1,623	47.8	36.2
P7	1,460	43.0	32.6
P8	2,640	77.7	58.9
P9	438	12.9	9.8

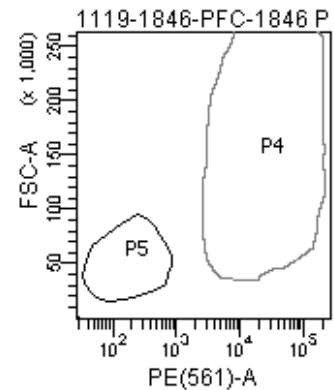
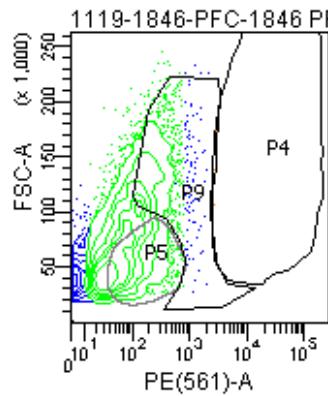


FACSDiva Version 6.1.3

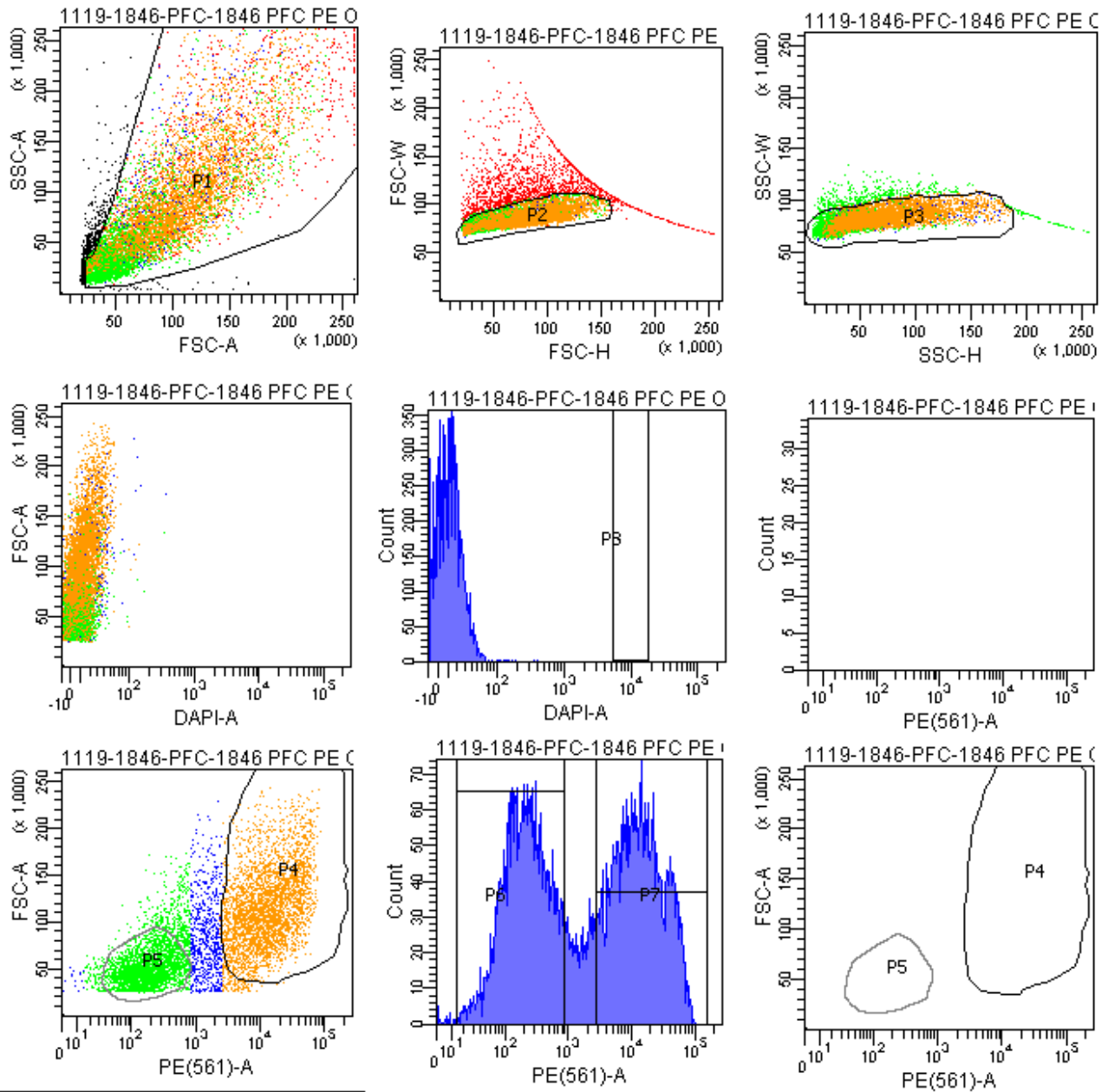


Tube: 1846 PFC PBS CONTROL

Population	#Events	%Parent	%Total
All Events	5,760	###	100.0
P1	5,418	94.1	94.1
P2	4,329	79.9	75.2
P3	4,057	93.7	70.4
P4	2	0.0	0.0
P5	1,214	29.9	21.1
P6	3,466	85.4	60.2
P7	4	0.1	0.1
P8	0	0.0	0.0
P9	867	21.4	15.1

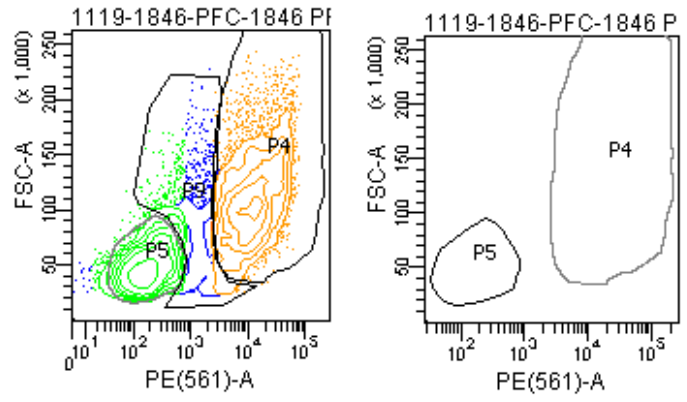


FACSDiva Version 6.1.3

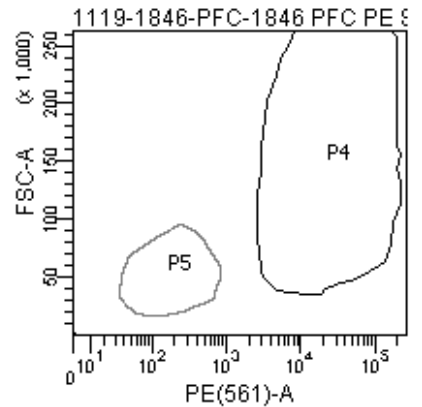
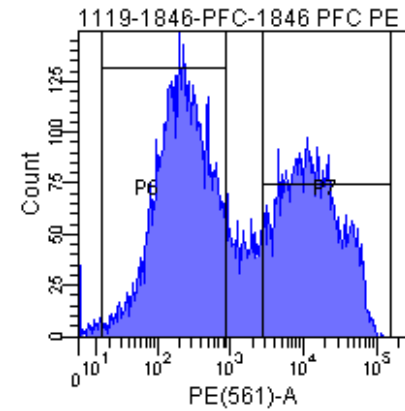
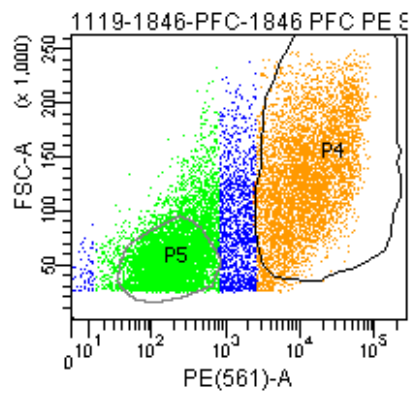
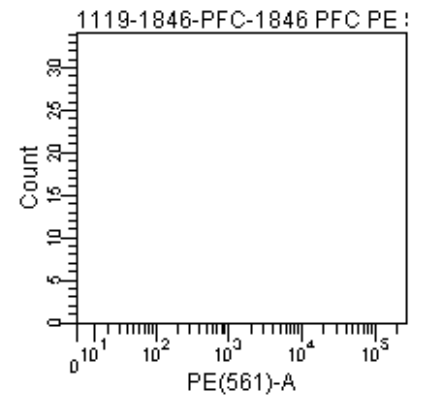
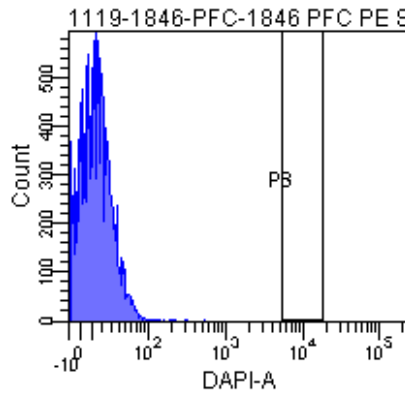
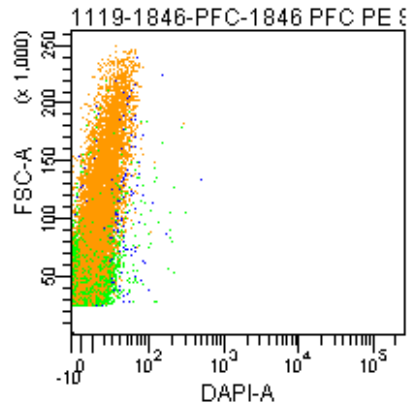
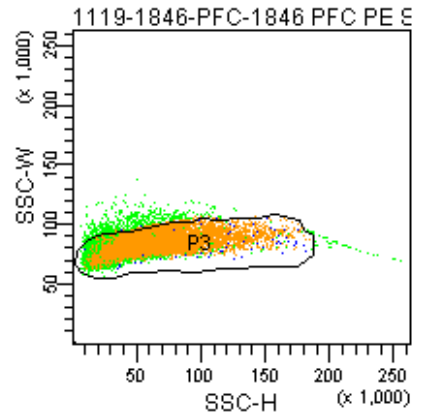
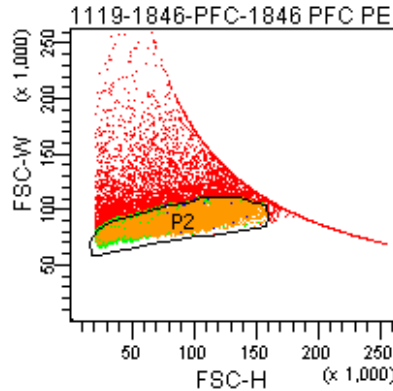
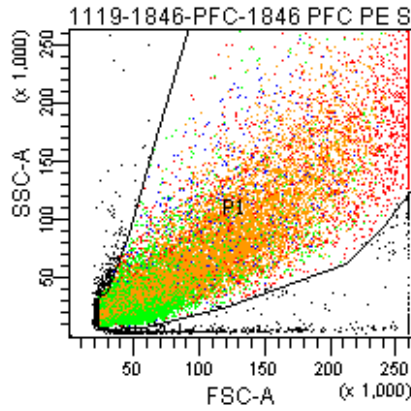


Tube: 1846 PFC PE ONLY CONTROL

Population	#Events	%Parent	%Total
All Events	10,146	####	100.0
P1	9,589	94.5	94.5
P2	7,909	82.5	78.0
P3	7,464	94.4	73.6
P4	3,408	45.7	33.6
P5	2,737	36.7	27.0
P6	3,231	43.3	31.8
P7	3,530	47.3	34.8
P8	0	0.0	0.0
P9	1,116	15.0	11.0

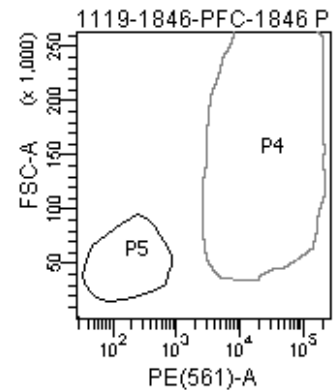
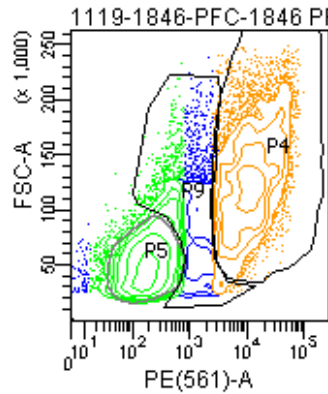


FACSDiva Version 6.1.3

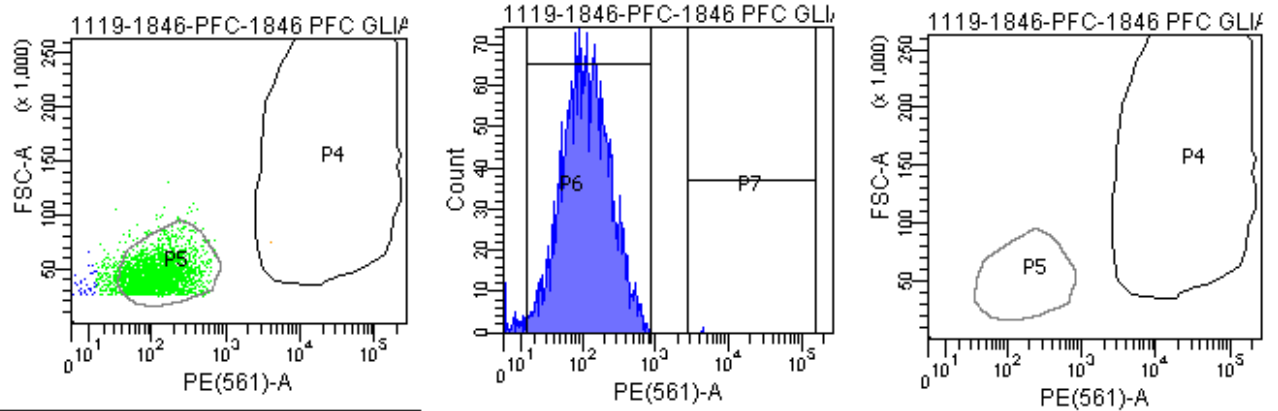
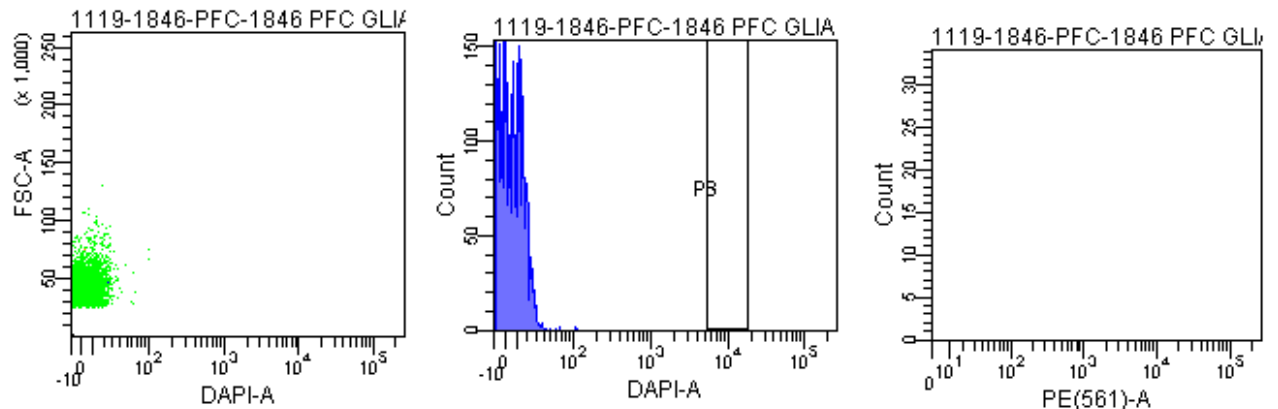
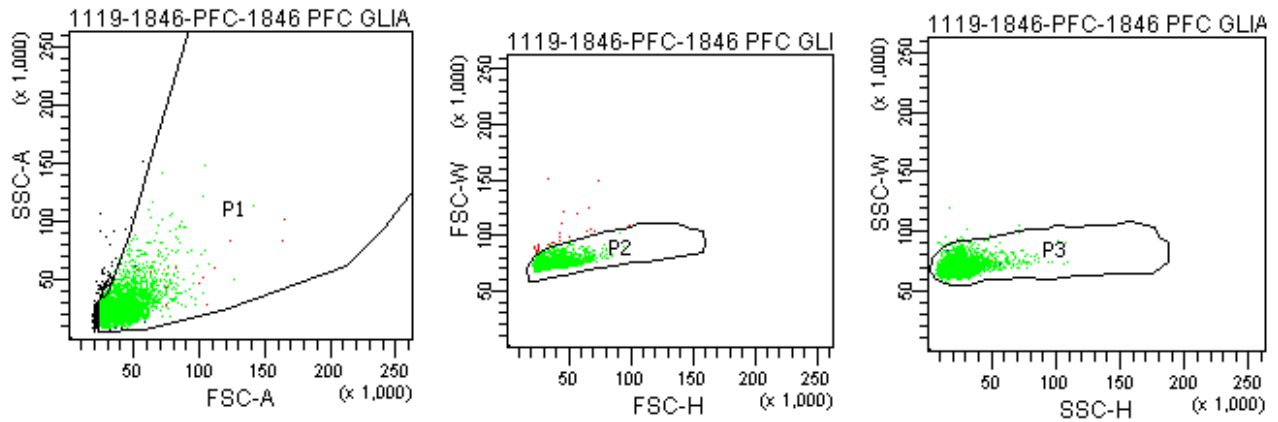


Tube: 1846 PFC PE SAMPLE

Population	#Events	%Parent	%Total
All Events	21,428	###	100.0
P1	20,000	93.3	93.3
P2	13,835	69.2	64.6
P3	13,341	96.4	62.3
P4	5,175	38.8	24.2
P5	5,177	38.8	24.2
P6	6,553	49.1	30.6
P7	5,380	40.3	25.1
P8	0	0.0	0.0
P9	2,416	18.1	11.3

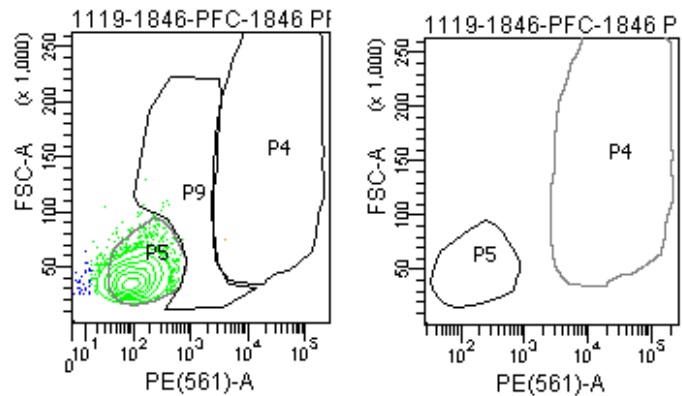


FACSDiva Version 6.1.3

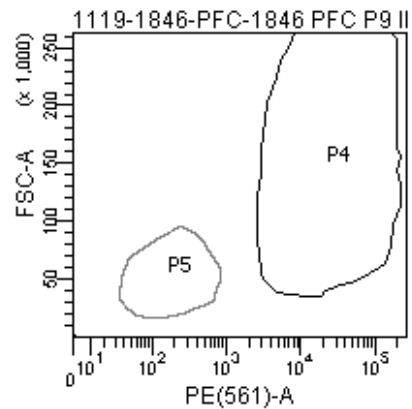
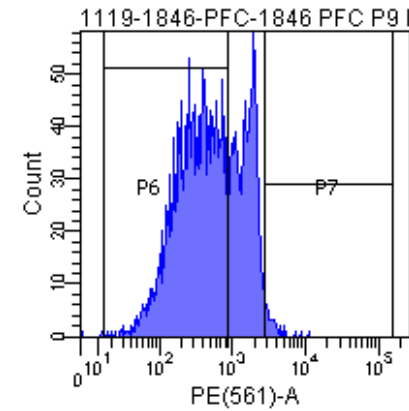
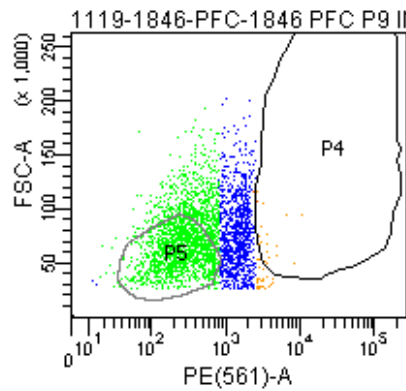
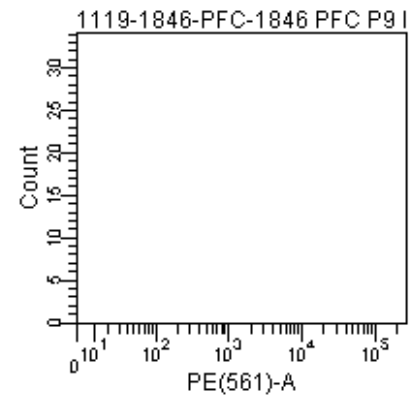
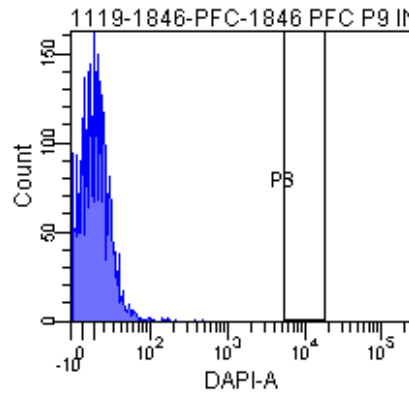
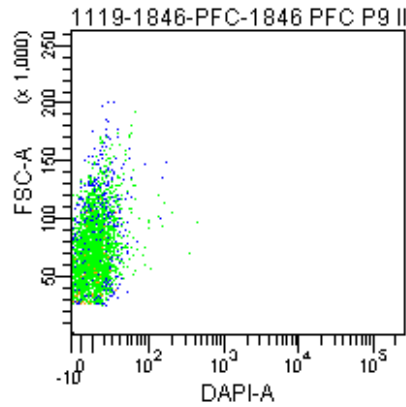
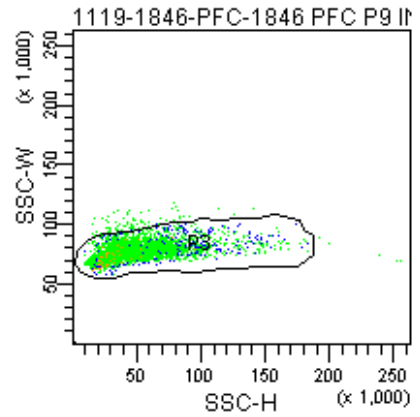
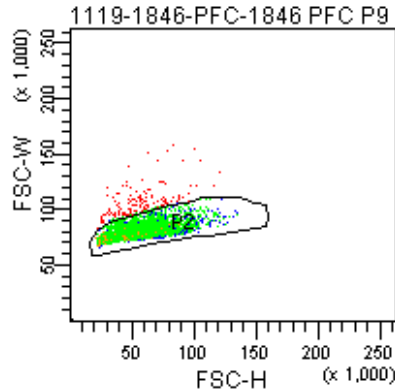
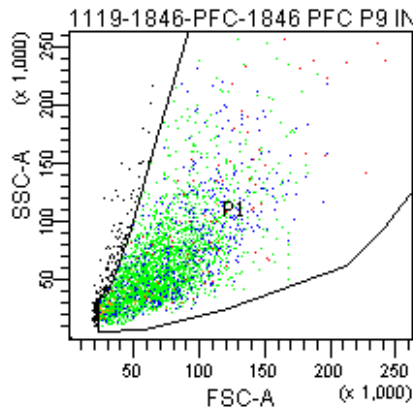


Tube: 1846 PFC GLIA BACK

Population	#Events	%Parent	%Total
All Events	3,330	###	100.0
P1	3,025	90.8	90.8
P2	2,998	99.1	90.0
P3	2,977	99.3	89.4
P4	1	0.0	0.0
P5	2,682	90.1	80.5
P6	2,928	98.4	87.9
P7	1	0.0	0.0
P8	0	0.0	0.0
P9	16	0.5	0.5

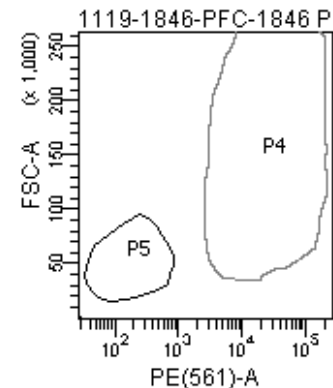
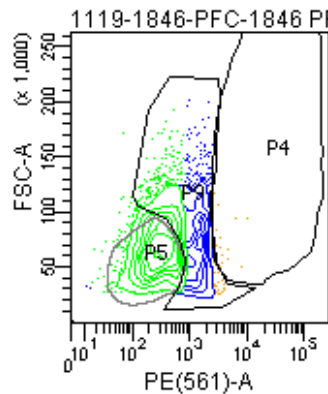


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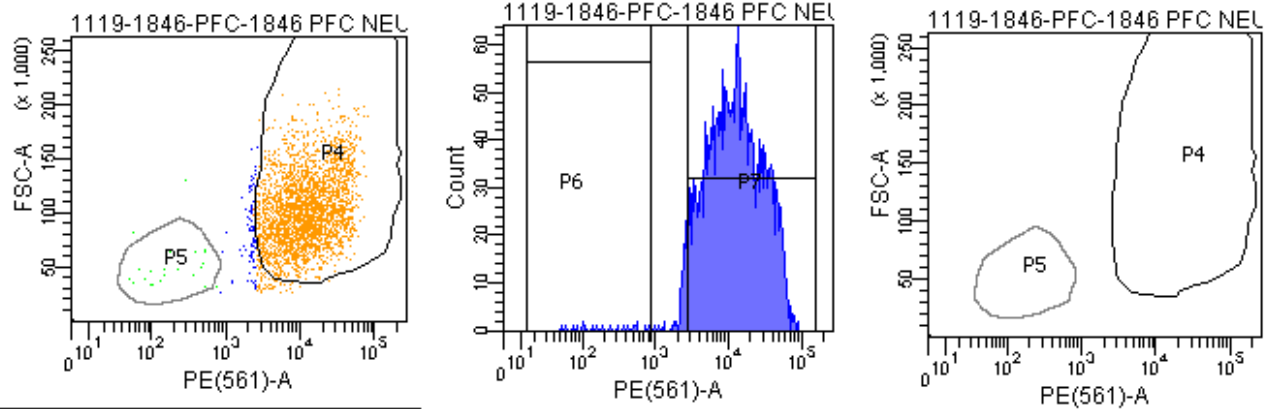
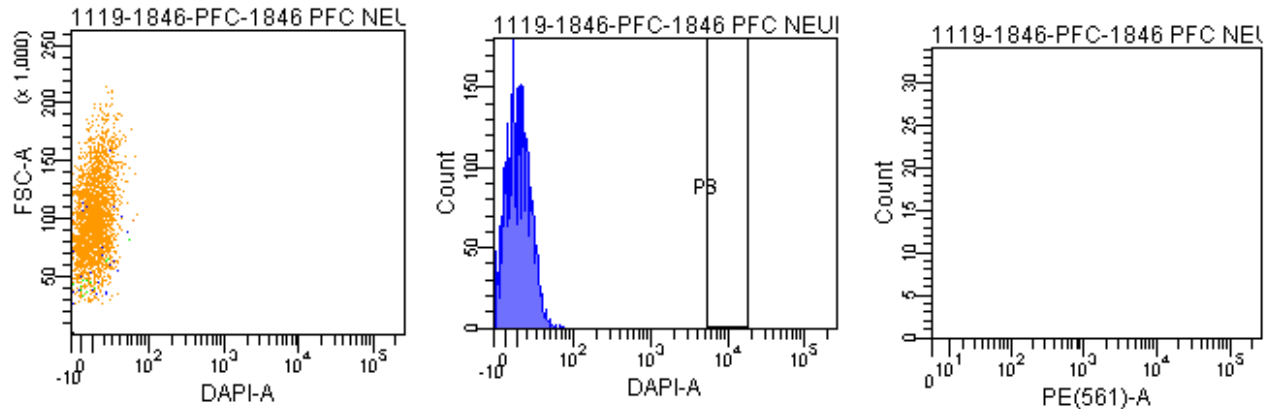
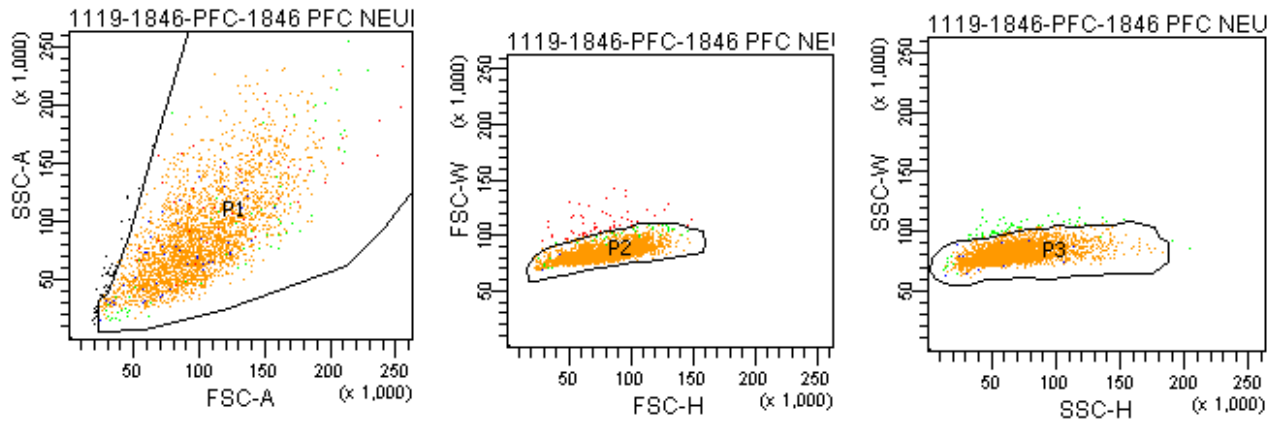


Tube: 1846 PFC P9 INTER BACK

Population	#Events	%Parent	%Total
All Events	3,379	###	100.0
P1	3,195	94.6	94.6
P2	3,054	95.6	90.4
P3	2,985	97.7	88.3
P4	22	0.7	0.7
P5	1,354	45.4	40.1
P6	1,974	66.1	58.4
P7	43	1.4	1.3
P8	0	0.0	0.0
P9	1,483	49.7	43.9

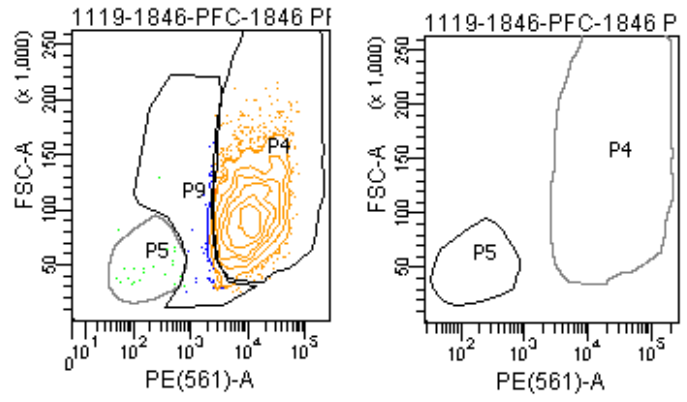


FACSDiva Version 6.1.3



Tube: 1846 PFC NEURON BACK

Population	#Events	%Parent	%Total
All Events	3,095	###	100.0
P1	3,052	98.6	98.6
P2	2,997	98.2	96.8
P3	2,938	98.0	94.9
P4	2,758	93.9	89.1
P5	19	0.6	0.6
P6	24	0.8	0.8
P7	2,817	95.9	91.0
P8	0	0.0	0.0
P9	137	4.7	4.4

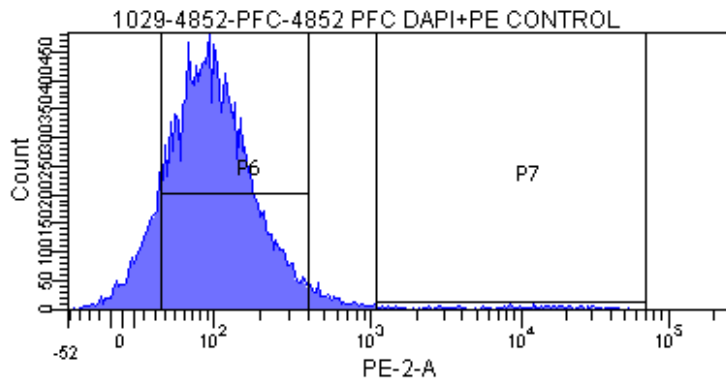
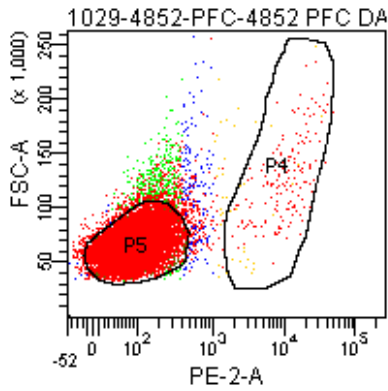
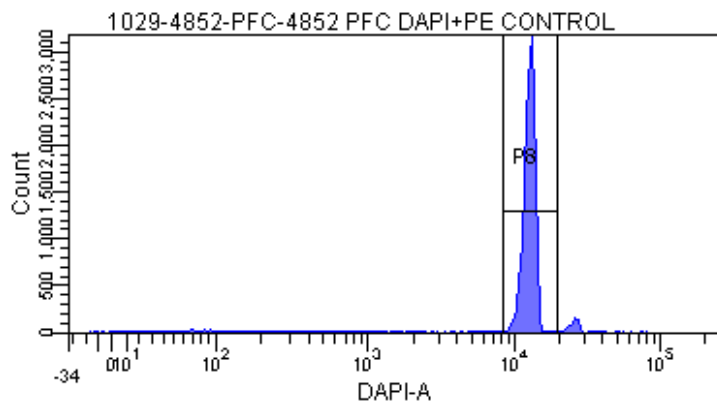
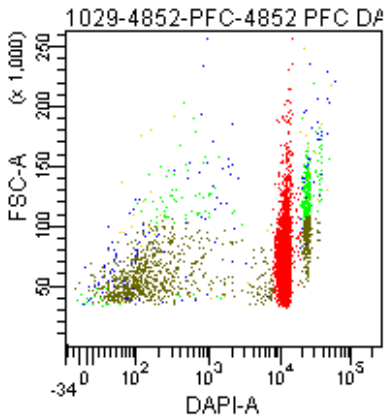
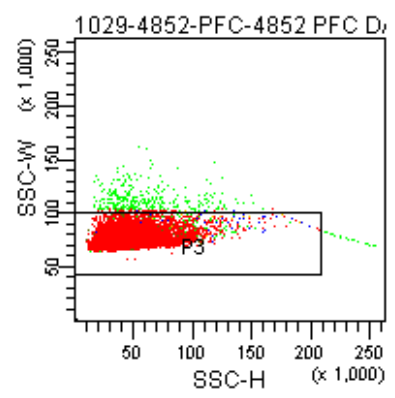
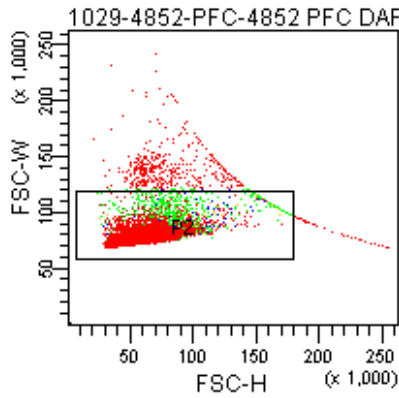
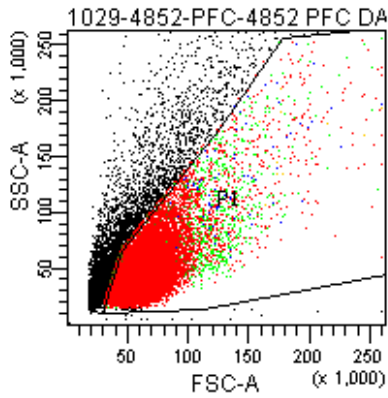


The BD Arial II FACS sorting reports of UMB#4852

Sample: prefrontal cortex

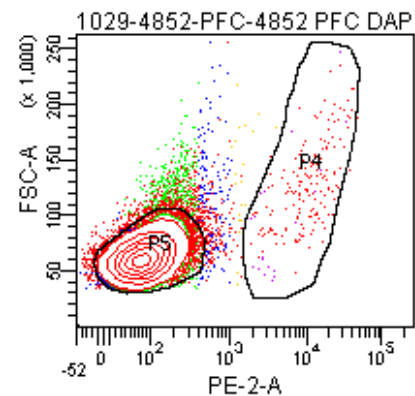
Category: Rett patient

FACSDiva Version 6.1.3

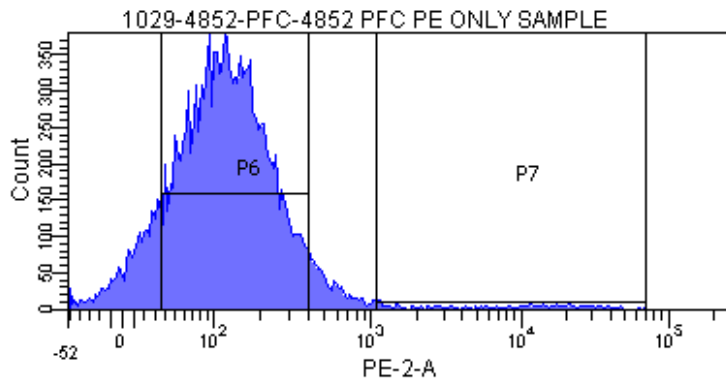
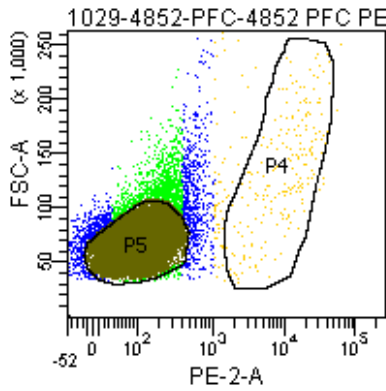
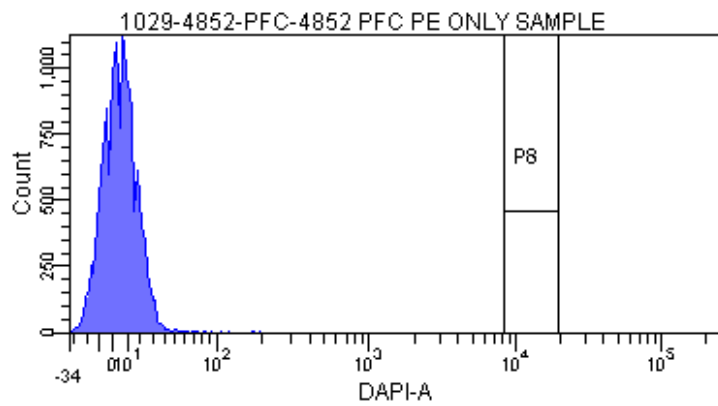
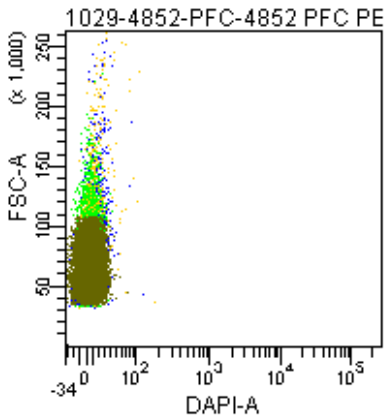
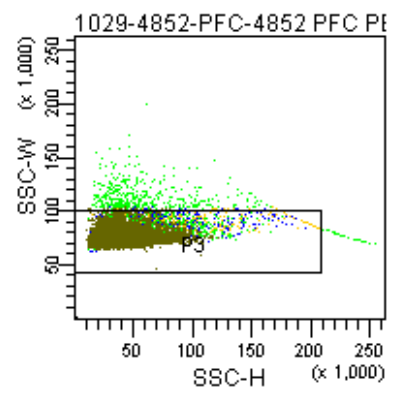
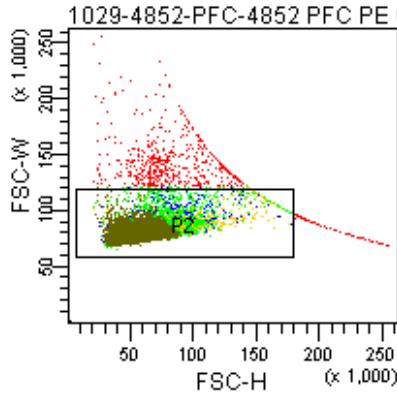
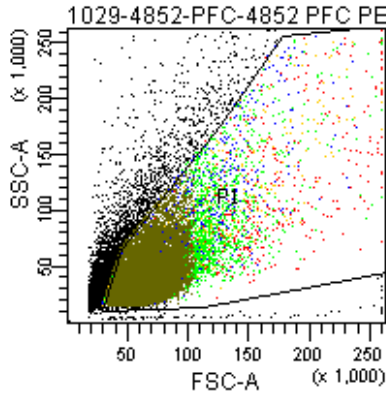


Tube: 4852 PFC DAPI+PE CONTROL

Population	#Events	%Parent	%Total
All Events	23,010	####	100.0
P1	18,266	79.4	79.4
P2	17,818	97.5	77.4
P3	17,432	97.8	75.8
P8	15,762	90.4	68.5
P5	16,014	91.9	69.6
P6	14,551	83.5	63.2
P7	224	1.3	1.0
P4	184	1.1	0.8

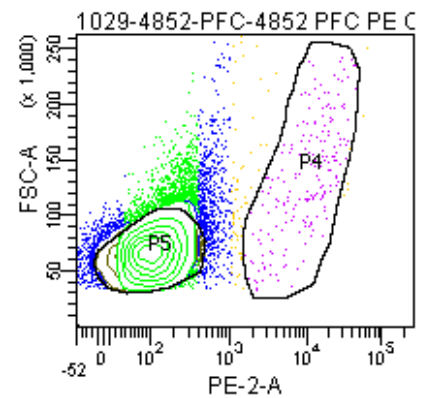


FACSDiva Version 6.1.3

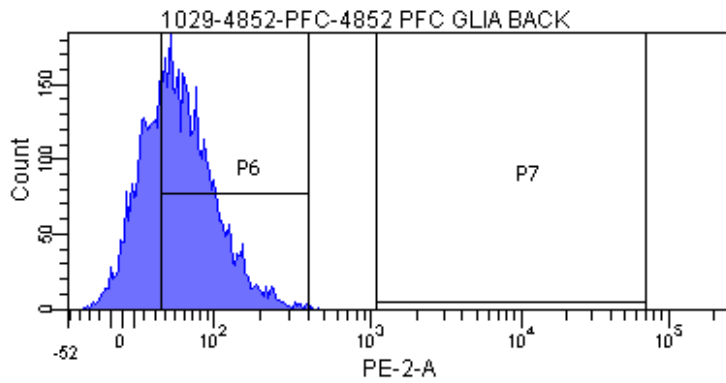
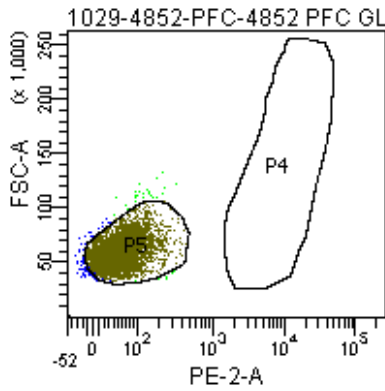
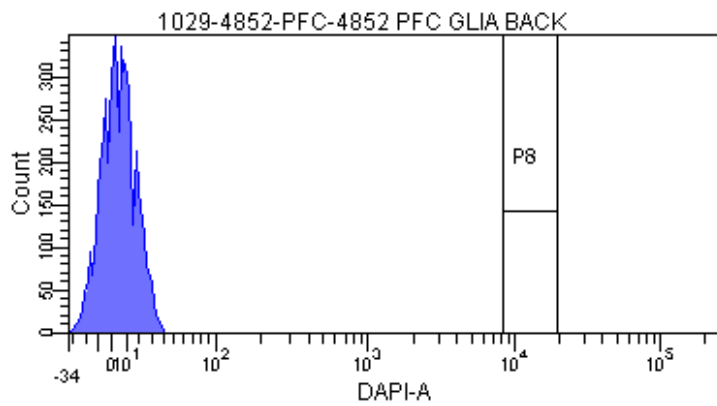
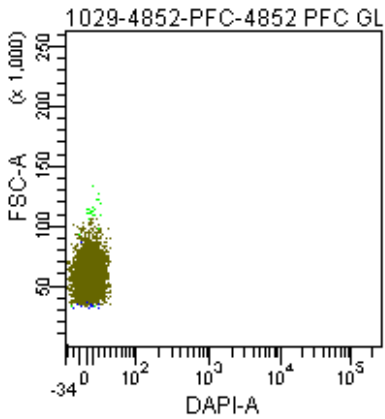
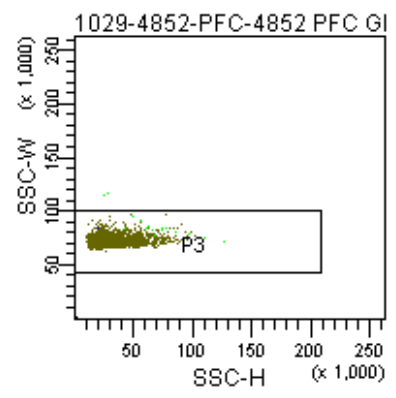
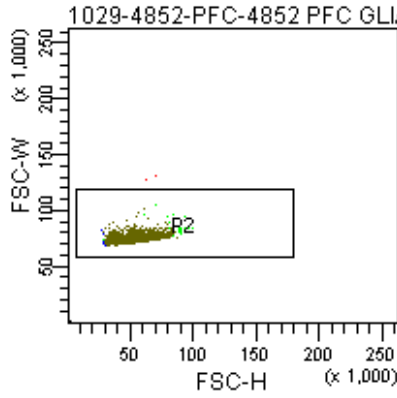
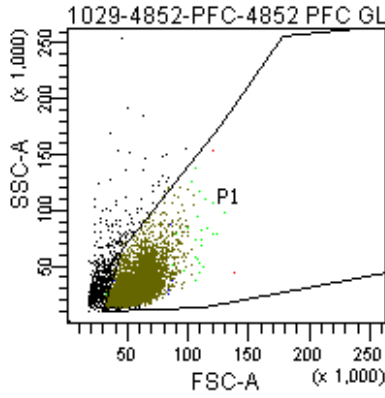


Tube: 4852 PFC PE ONLY SAMPLE

Population	#Events	%Parent	%Total
All Events	21,831	####	100.0
P1	17,690	81.0	81.0
P2	17,071	96.5	78.2
P3	16,604	97.3	76.1
P8	0	0.0	0.0
P5	14,100	84.9	64.6
P6	13,509	81.4	61.9
P7	287	1.7	1.3
P4	202	1.2	0.9

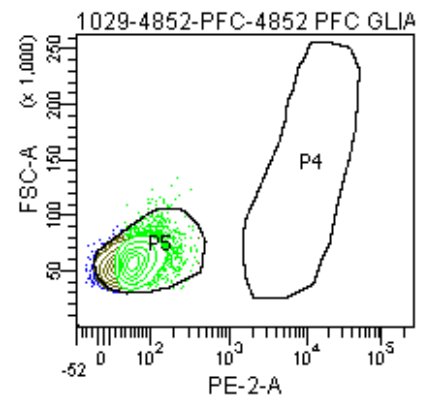


FACSDiva Version 6.1.3

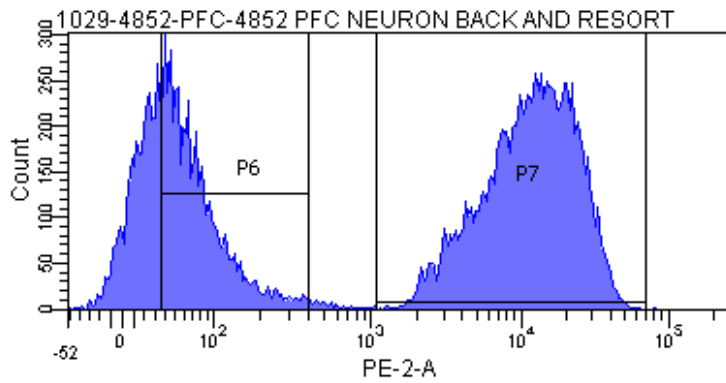
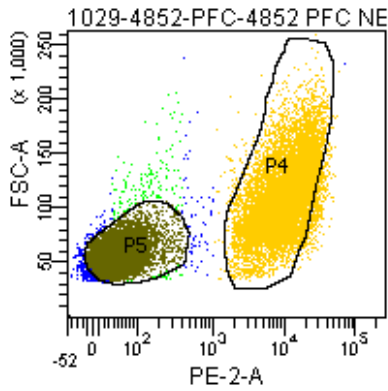
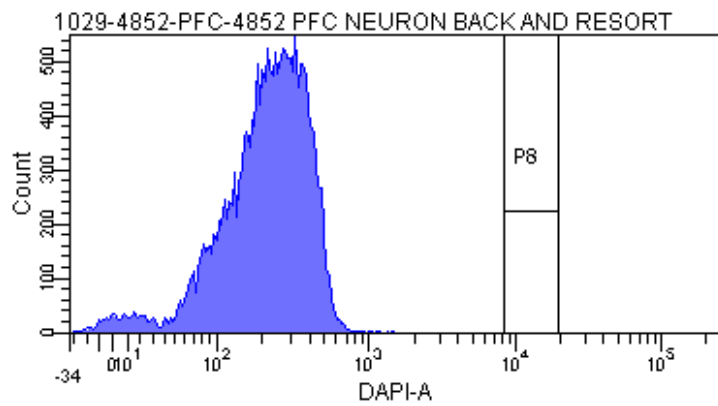
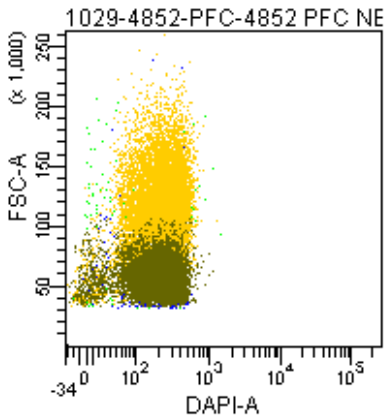
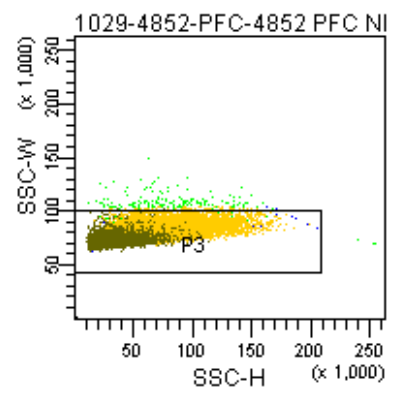
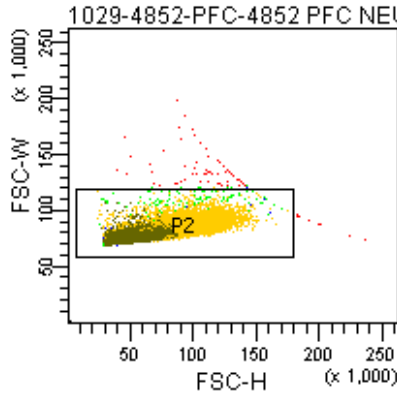
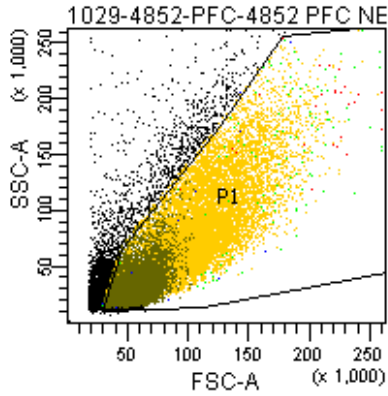


Tube: 4852 PFC GLIA BACK

Population	#Events	%Parent	%Total
All Events	5,855	####	100.0
P1	5,230	89.3	89.3
P2	5,228	100.0	89.3
P3	5,226	100.0	89.3
P8	0	0.0	0.0
P5	5,075	97.1	86.7
P6	3,349	64.1	57.2
P7	0	0.0	0.0
P4	0	0.0	0.0

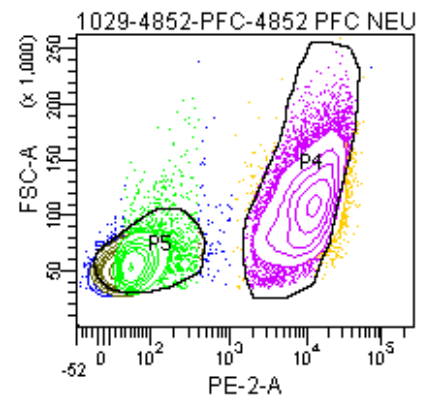


FACSDiva Version 6.1.3



Tube: 4852 PFC NEURON BACK AND RESORT

Population	#Events	%Parent	%Total
All Events	22,746	####	100.0
P1	19,674	86.5	86.5
P2	19,600	99.6	86.2
P3	19,437	99.2	85.5
P8	0	0.0	0.0
P5	7,655	39.4	33.7
P6	4,773	24.6	21.0
P7	11,160	57.4	49.1
P4	10,484	53.9	46.1

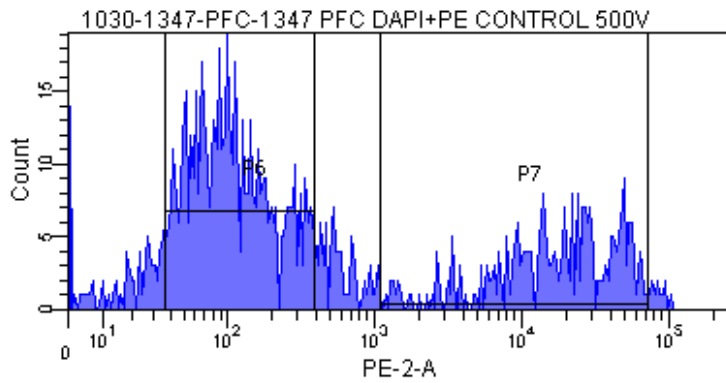
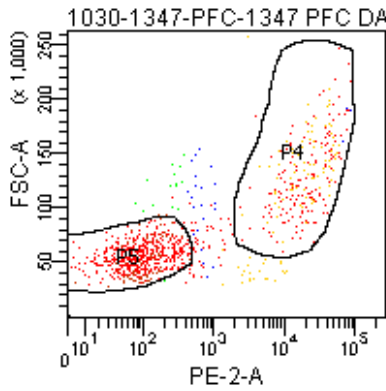
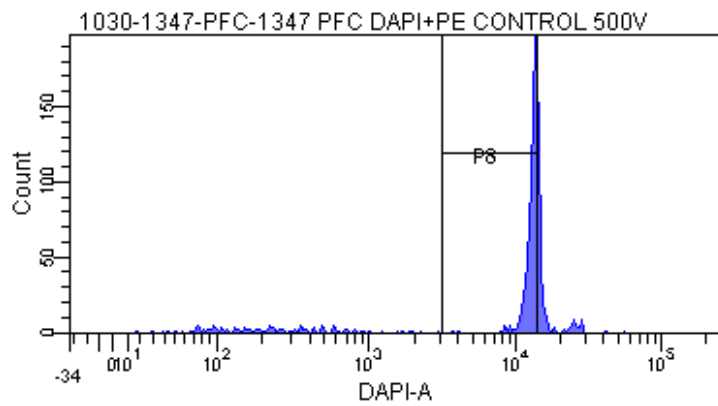
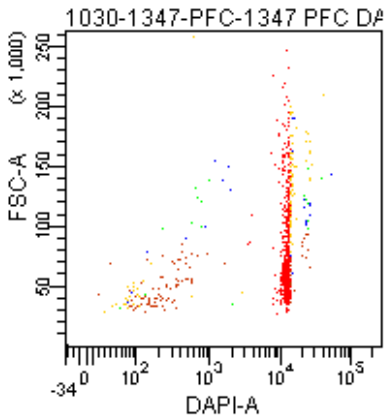
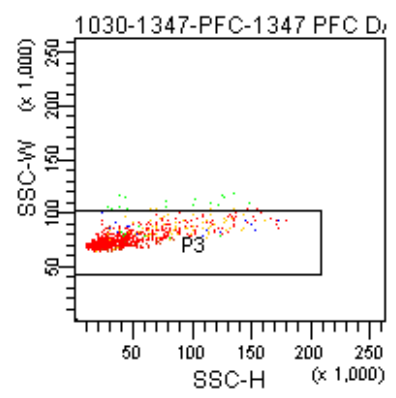
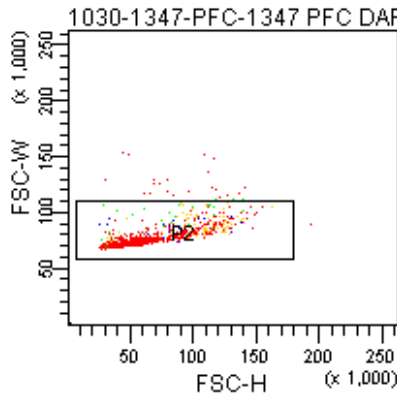
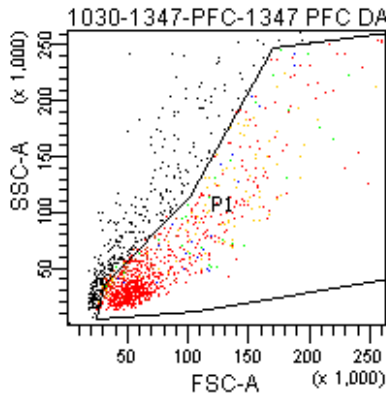


The BD Arial II FACS sorting reports of UMB#1347

Sample: prefrontal cortex

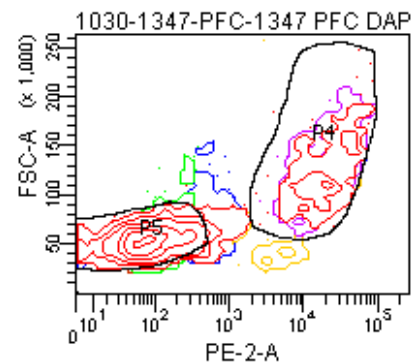
Category: healthy control

FACSDiva Version 6.1.3

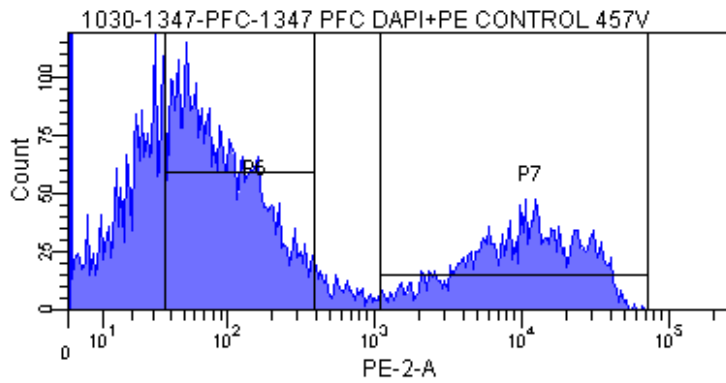
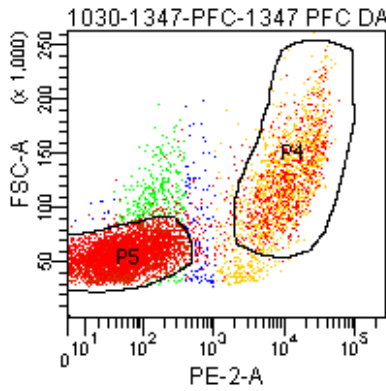
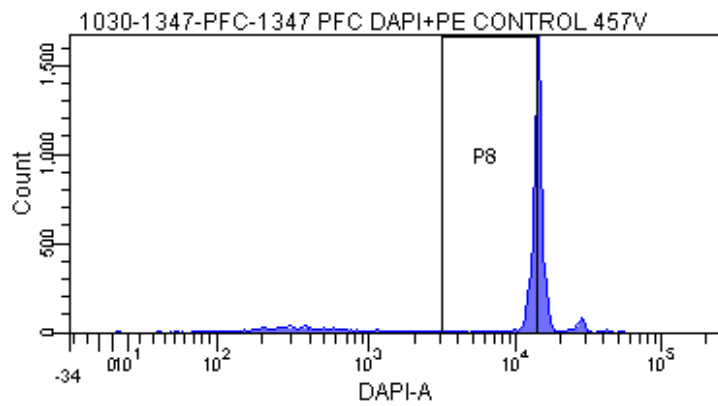
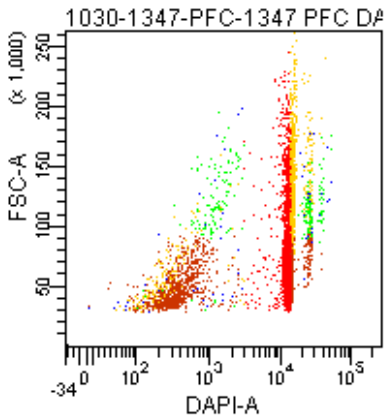
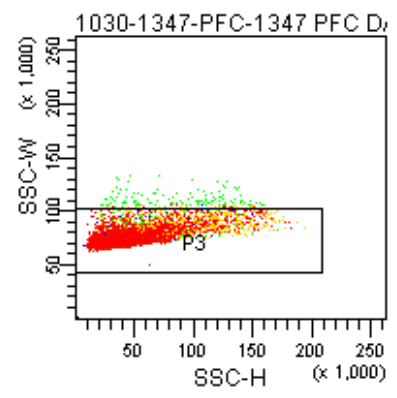
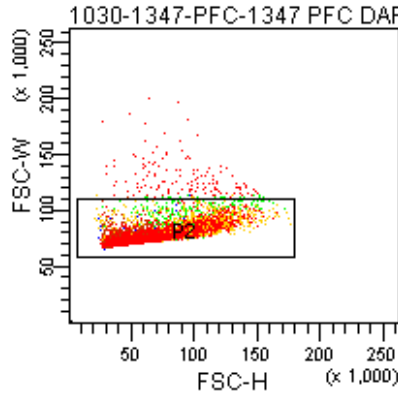
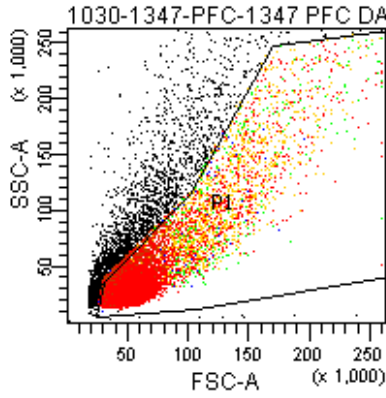


Tube: 1347 PFC DAPI+PE CONTROL 500V

Population	#Events	%Parent	%Total
All Events	1,436	####	100.0
P1	994	69.2	69.2
P2	972	97.8	67.7
P3	958	98.6	66.7
P8	705	73.6	49.1
P5	593	61.9	41.3
P6	528	55.1	36.8
P7	270	28.2	18.8
P4	237	24.7	16.5

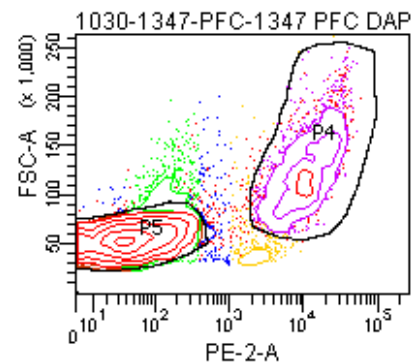


FACSDiva Version 6.1.3

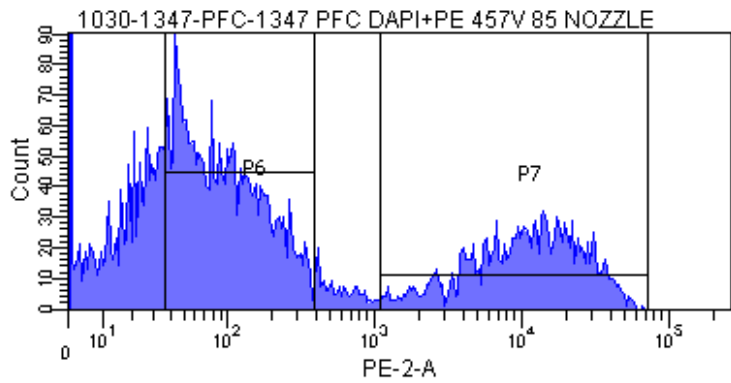
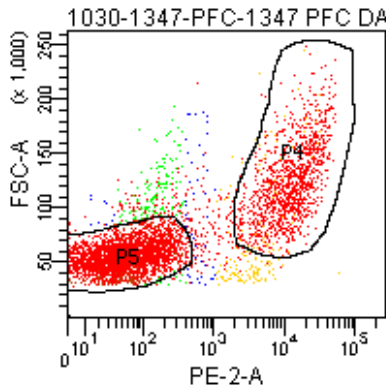
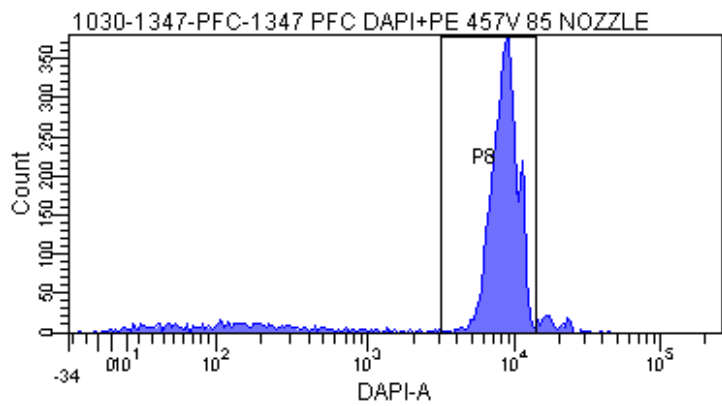
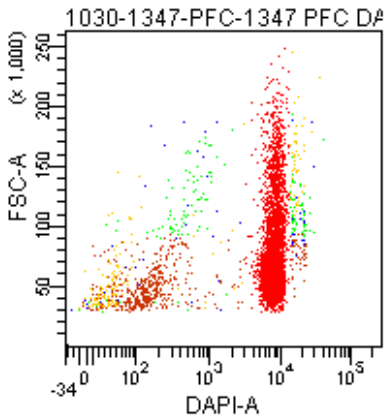
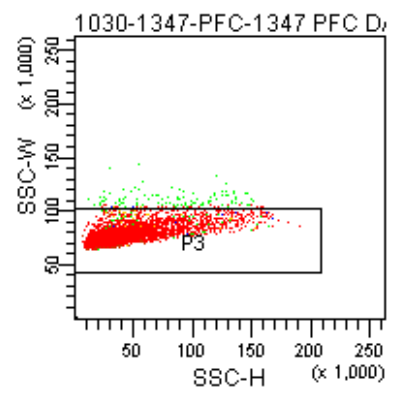
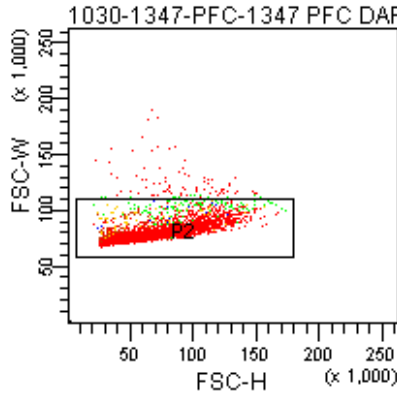
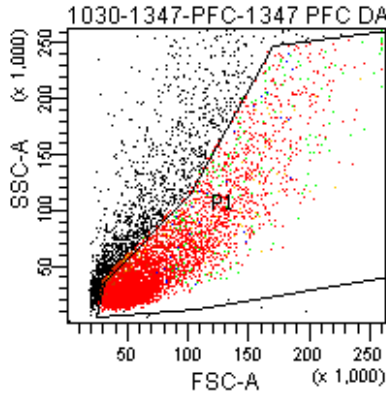


Tube: 1347 PFC DAPI+PE CONTROL 457V

Population	#Events	%Parent	%Total
All Events	11,230	####	100.0
P1	7,871	70.1	70.1
P2	7,737	98.3	68.9
P3	7,614	98.4	67.8
P8	3,736	49.1	33.3
P5	5,047	66.3	44.9
P6	3,375	44.3	30.1
P7	2,021	26.5	18.0
P4	1,766	23.2	15.7

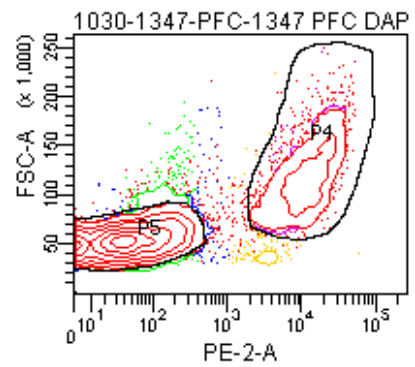


FACSDiva Version 6.1.3

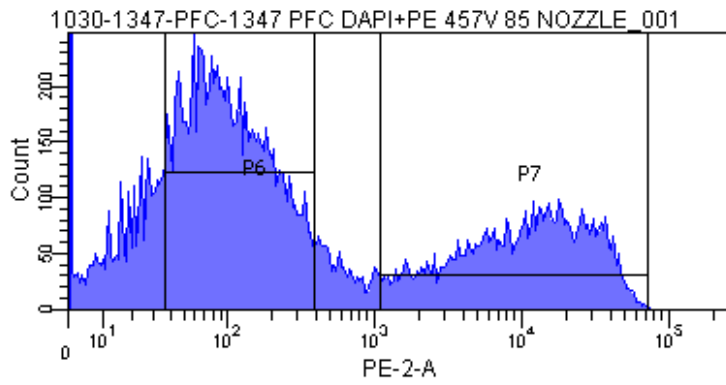
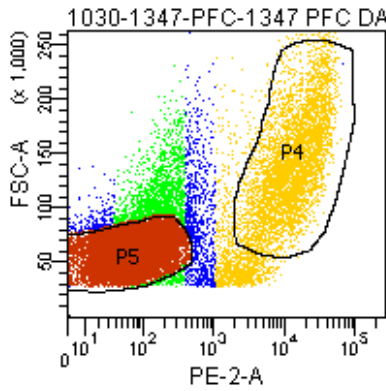
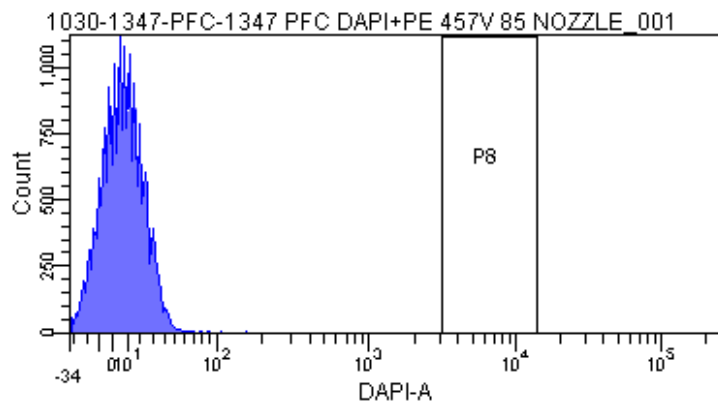
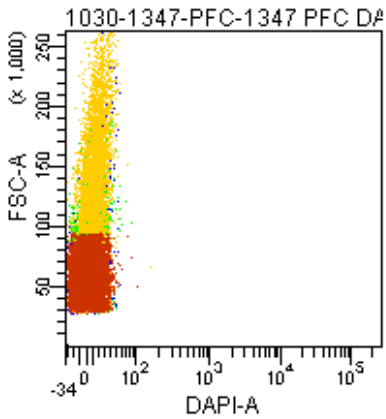
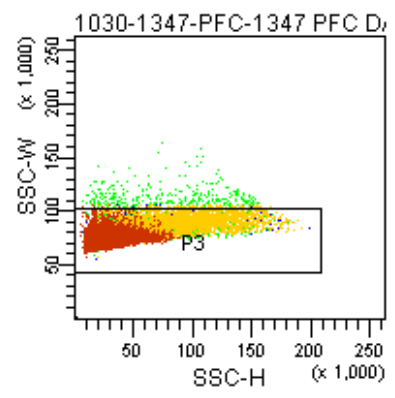
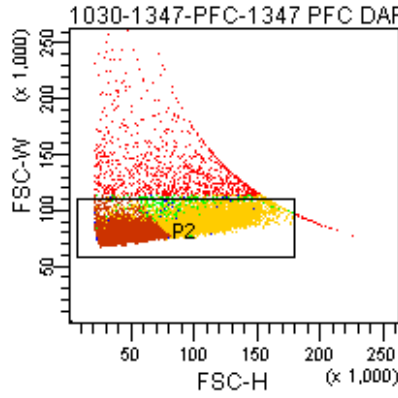
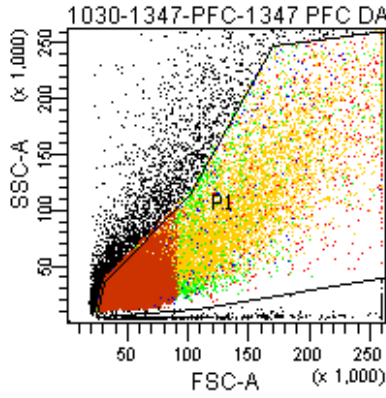


Tube: 1347 PFC DAPI+PE 457V 85 NOZZLE

Population	#Events	%Parent	%Total
All Events	7,432	####	100.0
P1	5,430	73.1	73.1
P2	5,355	98.6	72.1
P3	5,258	98.2	70.7
P8	4,397	83.6	59.2
P5	3,454	65.7	46.5
P6	2,326	44.2	31.3
P7	1,429	27.2	19.2
P4	1,266	24.1	17.0

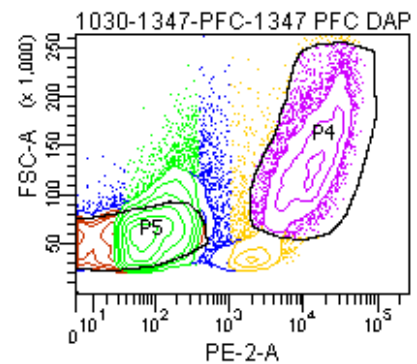


FACSDiva Version 6.1.3

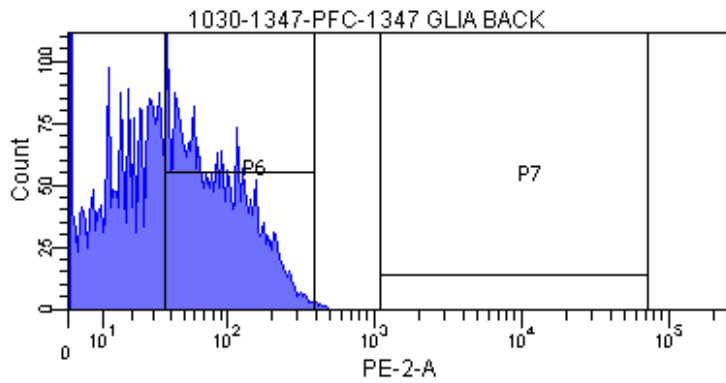
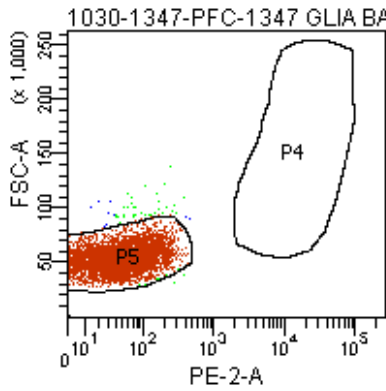
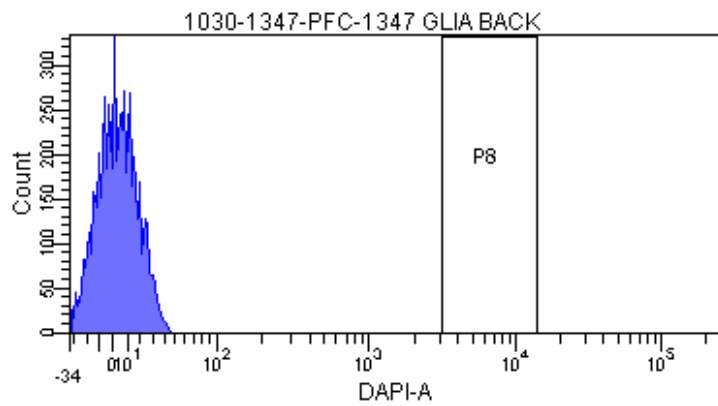
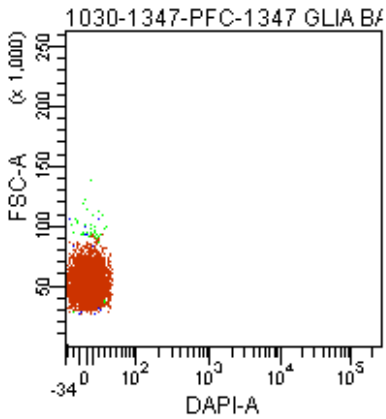
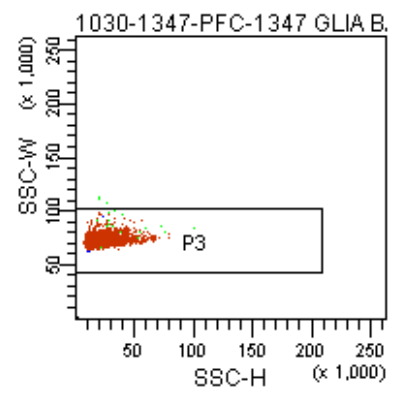
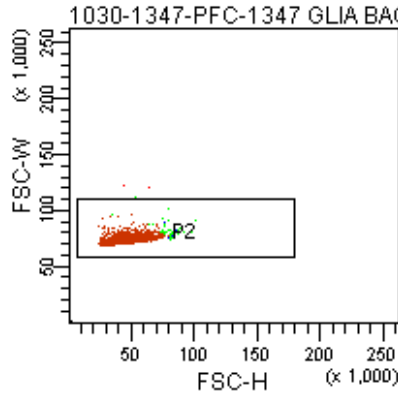
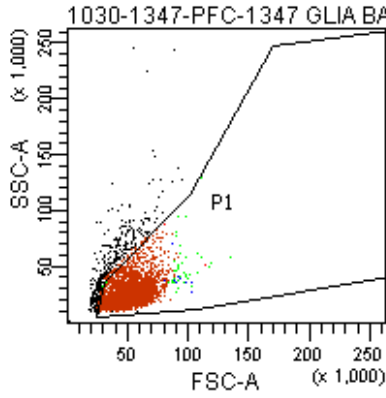


Tube: 1347 PFC DAPI+PE 457V 85 NOZZLE_001

Population	#Events	%Parent	%Total
All Events	26,621	####	100.0
P1	20,000	75.1	75.1
P2	18,950	94.8	71.2
P3	18,622	98.3	70.0
P8	0	0.0	0.0
P5	10,486	56.3	39.4
P6	8,958	48.1	33.7
P7	5,507	29.6	20.7
P4	4,360	23.4	16.4

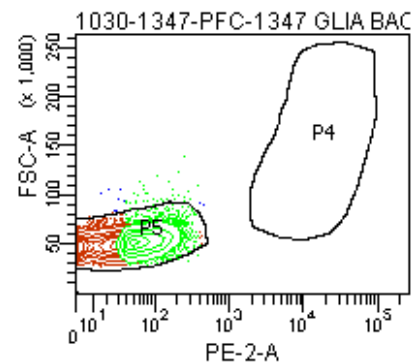


FACSDiva Version 6.1.3

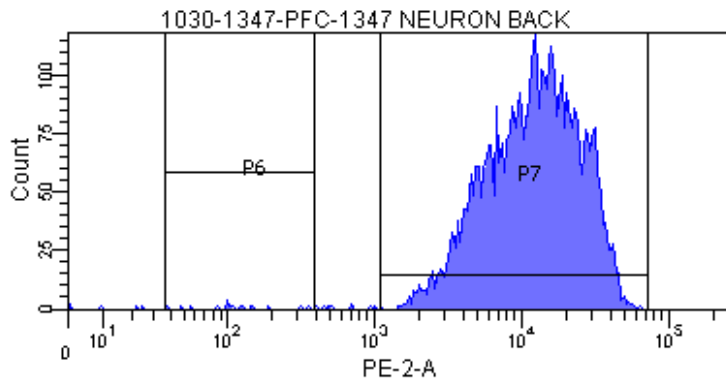
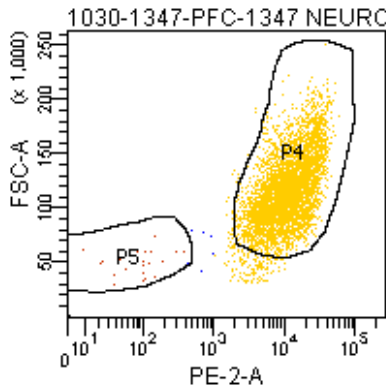
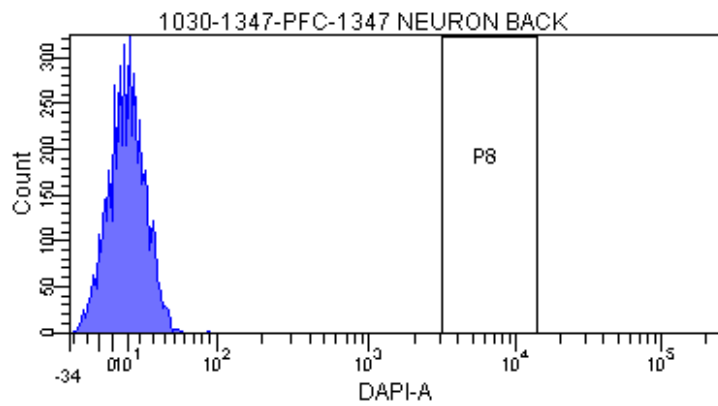
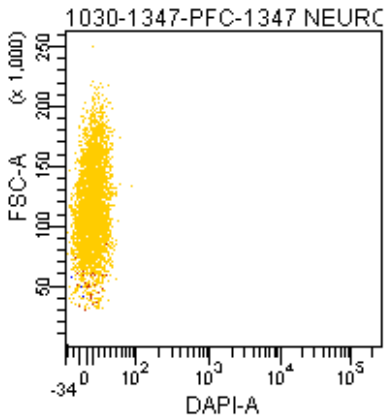
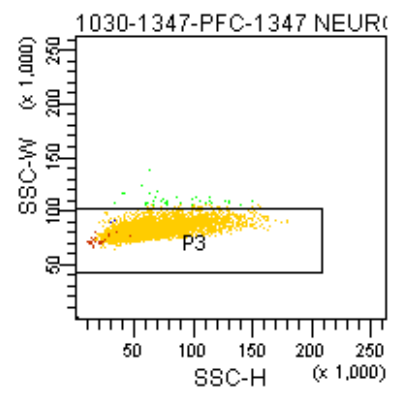
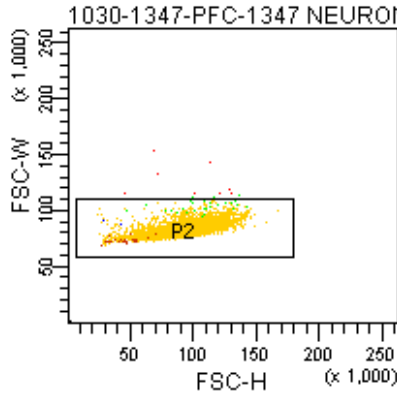
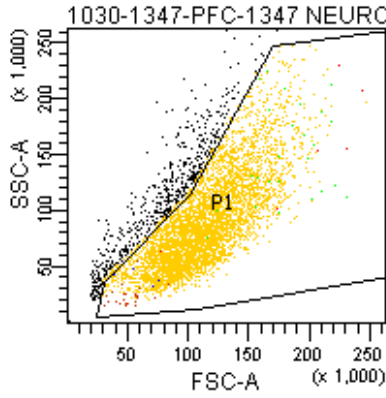


Tube: 1347 GLIA BACK

Population	#Events	%Parent	%Total
All Events	5,393	###	100.0
P1	5,043	93.5	93.5
P2	5,041	100.0	93.5
P3	5,038	99.9	93.4
P8	0	0.0	0.0
P5	4,962	98.5	92.0
P6	2,408	47.8	44.7
P7	0	0.0	0.0
P4	0	0.0	0.0

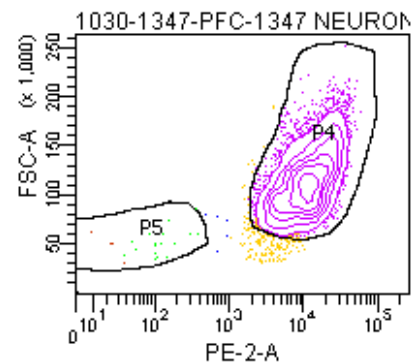


FACSDiva Version 6.1.3



Tube: 1347 NEURON BACK

Population	#Events	%Parent	%Total
All Events	5,318	###	100.0
P1	4,752	89.4	89.4
P2	4,744	99.8	89.2
P3	4,707	99.2	88.5
P8	0	0.0	0.0
P5	25	0.5	0.5
P6	18	0.4	0.3
P7	4,676	99.3	87.9
P4	4,499	95.6	84.6

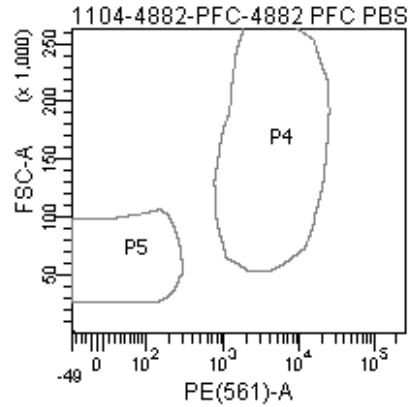
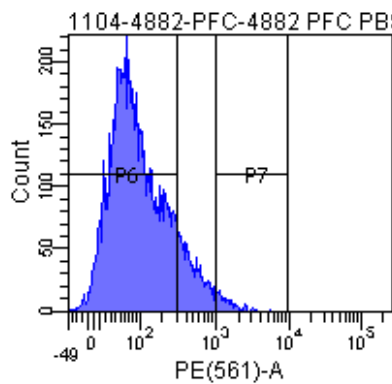
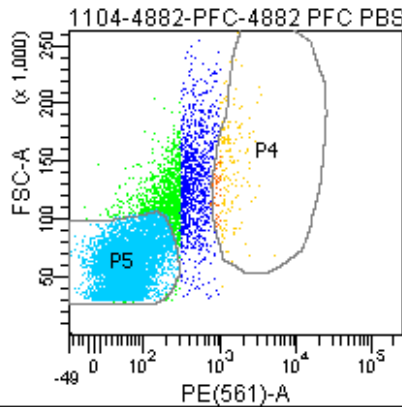
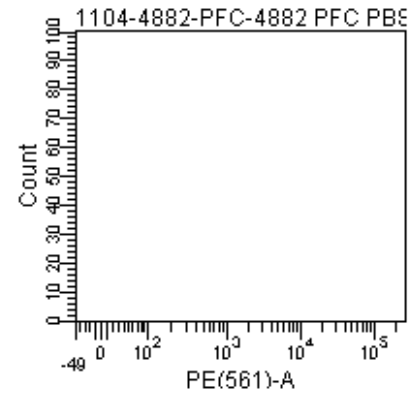
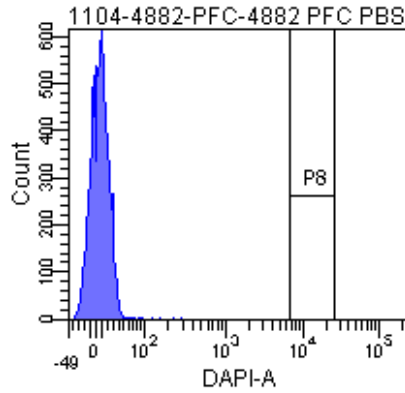
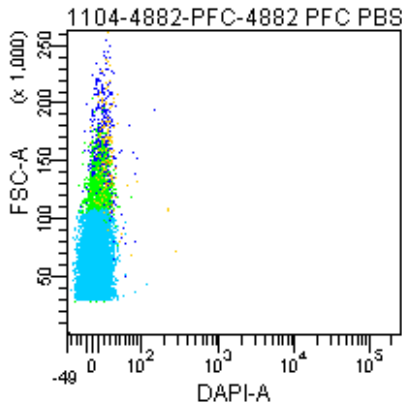
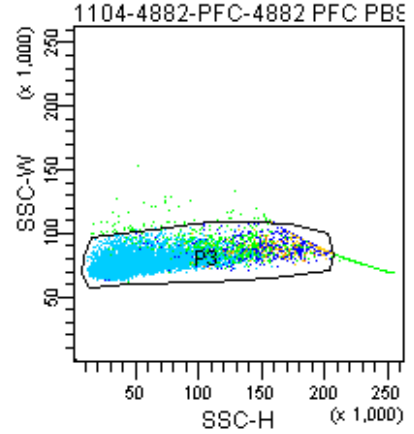
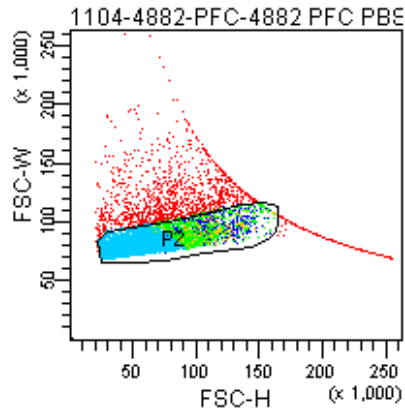
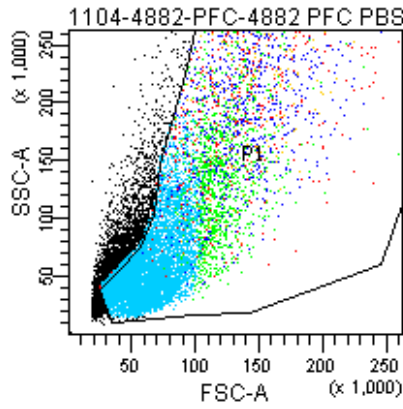


The BD Arial II FACS sorting reports of UMB#4882

Sample: prefrontal cortex

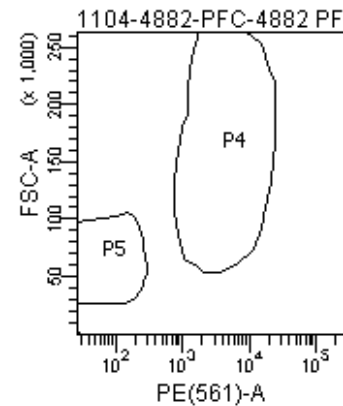
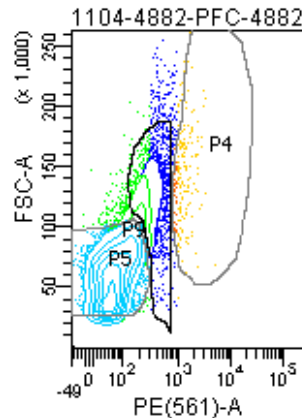
Category: Rett patient

FACSDiva Version 6.1.3

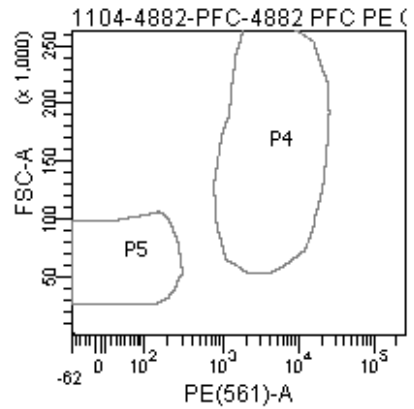
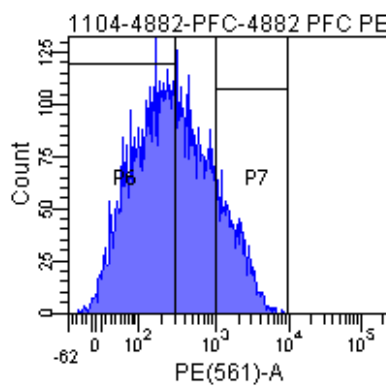
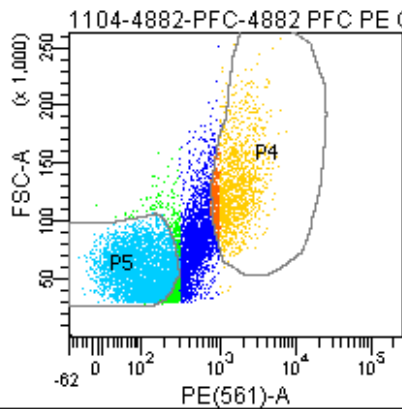
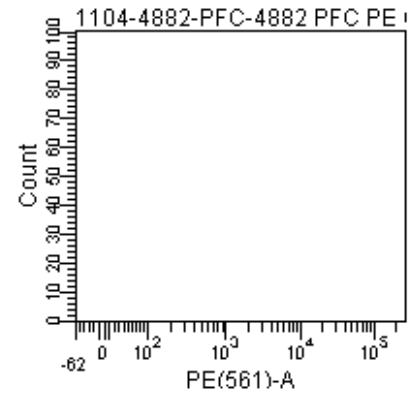
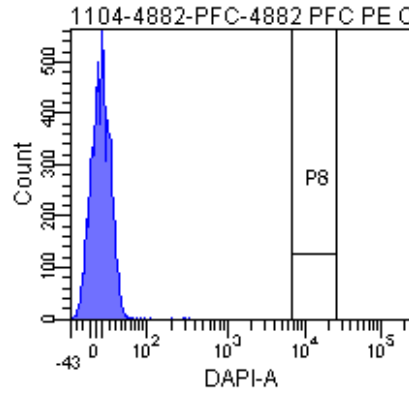
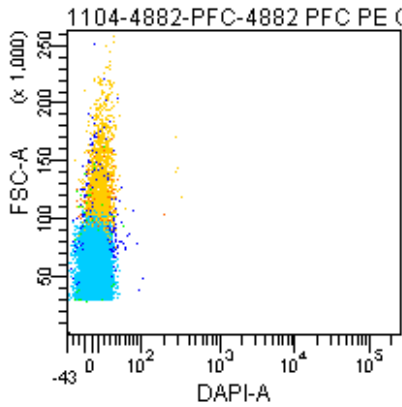
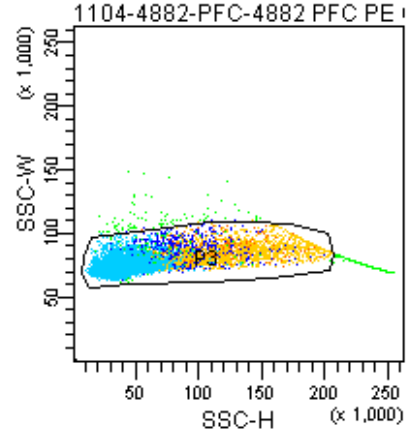
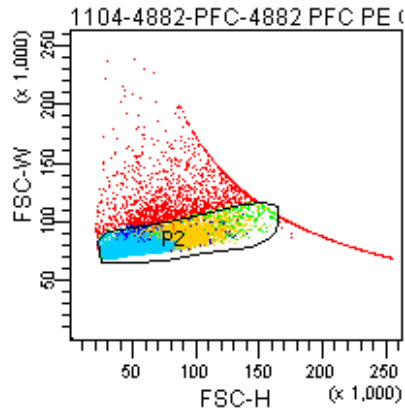
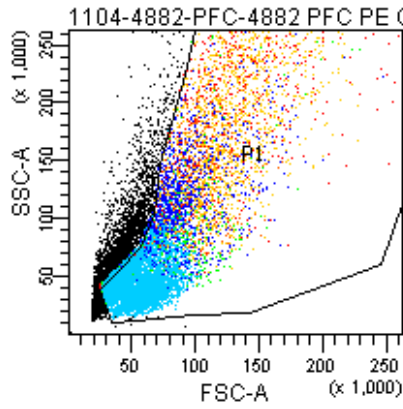


Tube: 4882 PFC PBS CONTROL

Population	#Events	%Parent	%Total
All Events	15,116	###	100.0
P1	11,238	74.3	74.3
P2	9,605	85.5	63.5
P3	9,193	95.7	60.8
P4	207	2.3	1.4
P5	6,914	75.2	45.7
P6	7,986	86.9	52.8
P7	162	1.8	1.1
P8	0	0.0	0.0
P9	1,519	16.5	10.0

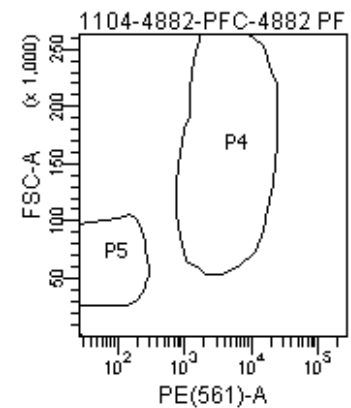
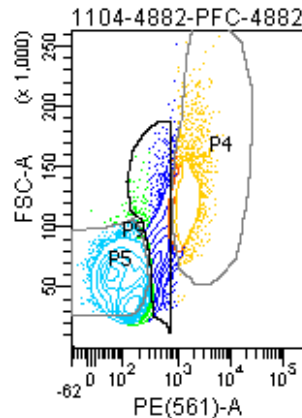


FACSDiva Version 6.1.3

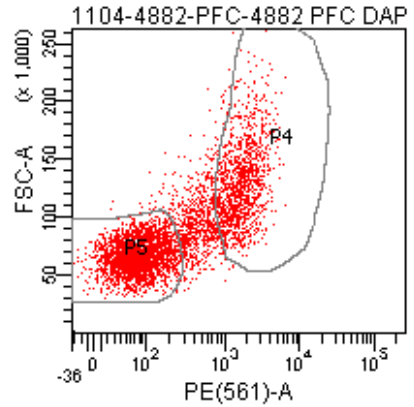
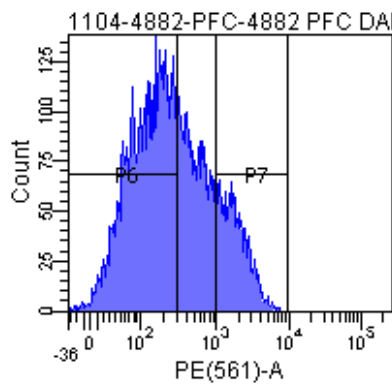
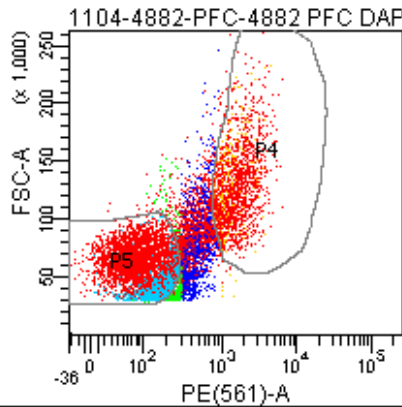
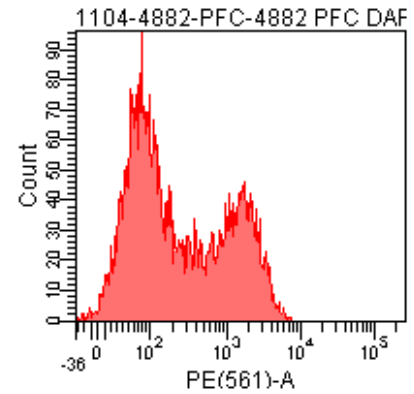
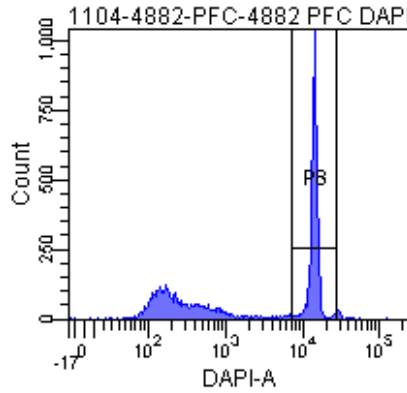
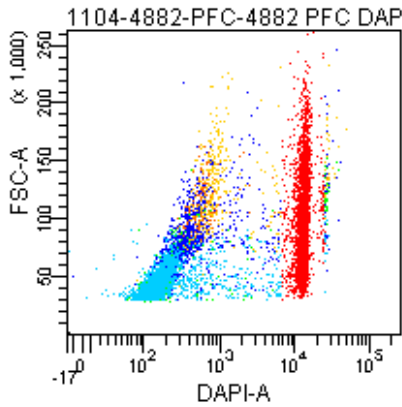
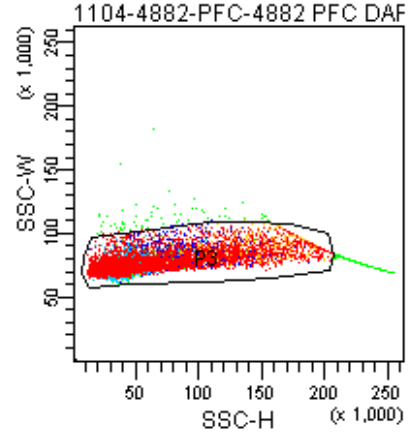
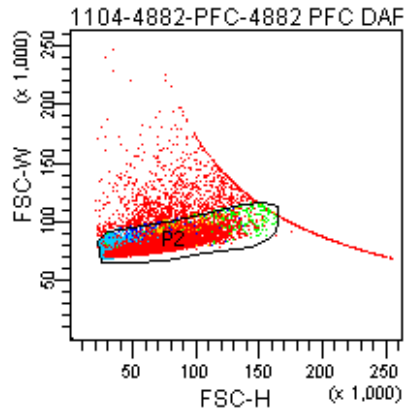
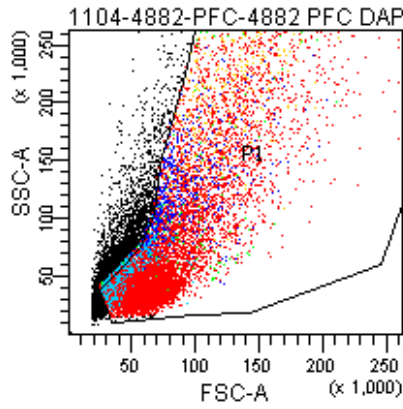


Tube: 4882 PFC PE ONLY

Population	#Events	%Parent	%Total
All Events	15,420	###	100.0
P1	11,140	72.2	72.2
P2	9,110	81.8	59.1
P3	8,549	93.8	55.4
P4	1,599	18.7	10.4
P5	4,048	47.4	26.3
P6	4,744	55.5	30.8
P7	1,279	15.0	8.3
P8	0	0.0	0.0
P9	1,876	21.9	12.2

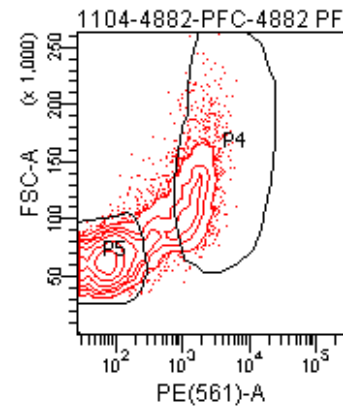
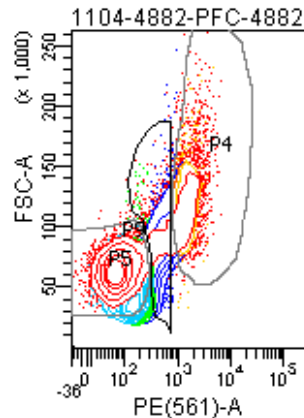


FACSDiva Version 6.1.3

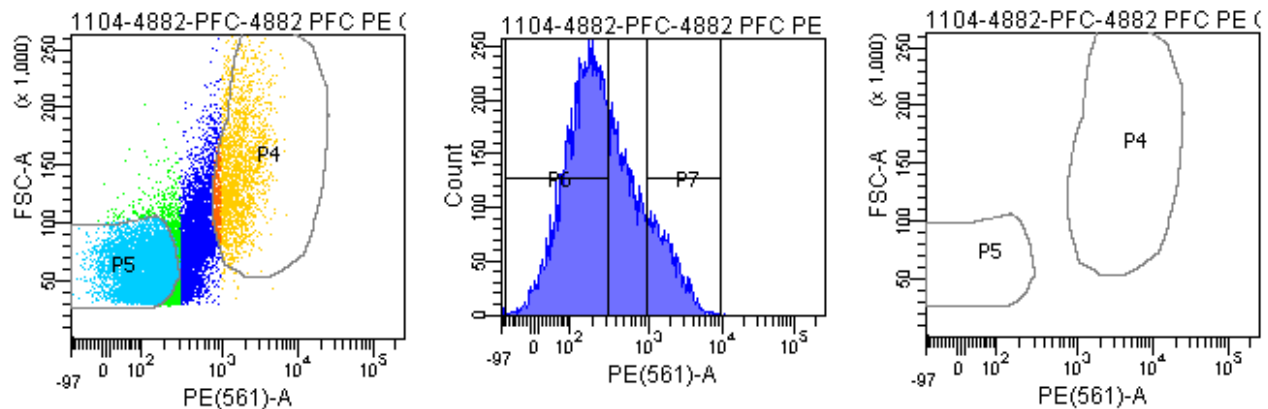
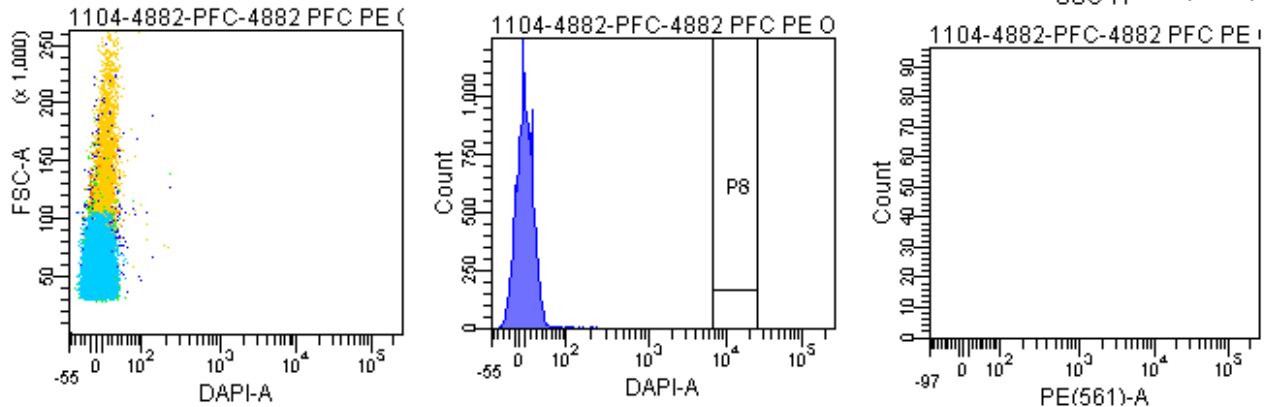
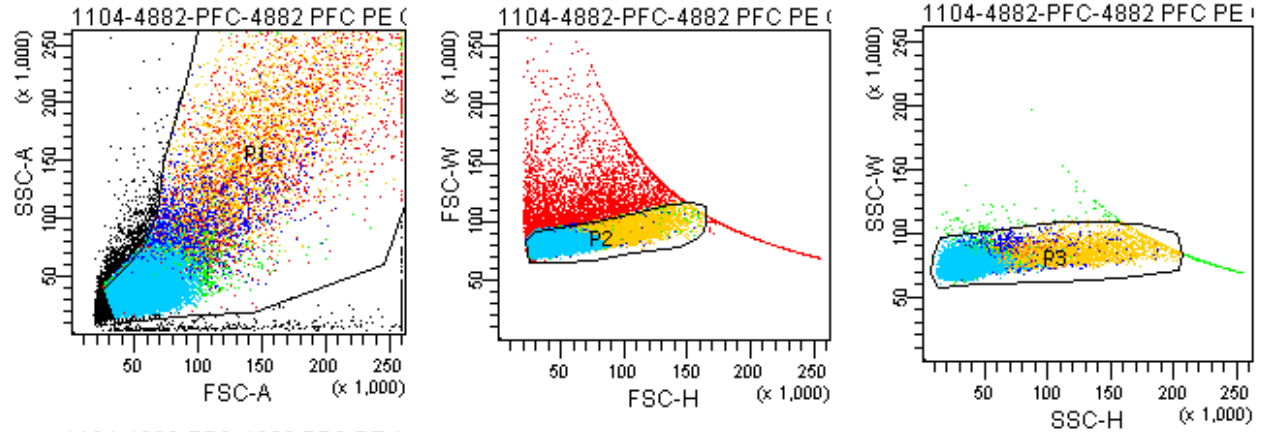


Tube: 4882 PFC DAPI+PE

Population	#Events	%Parent	%Total
All Events	15,537	###	100.0
P1	11,189	72.0	72.0
P2	9,518	85.1	61.3
P3	9,011	94.7	58.0
P4	1,724	19.1	11.1
P5	4,533	50.3	29.2
P6	5,213	57.9	33.6
P7	1,464	16.2	9.4
P8	4,714	52.3	30.3
P9	1,758	19.5	11.3

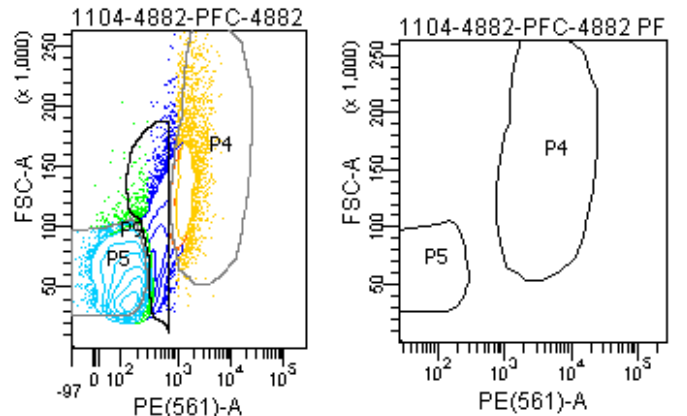


FACSDiva Version 6.1.3

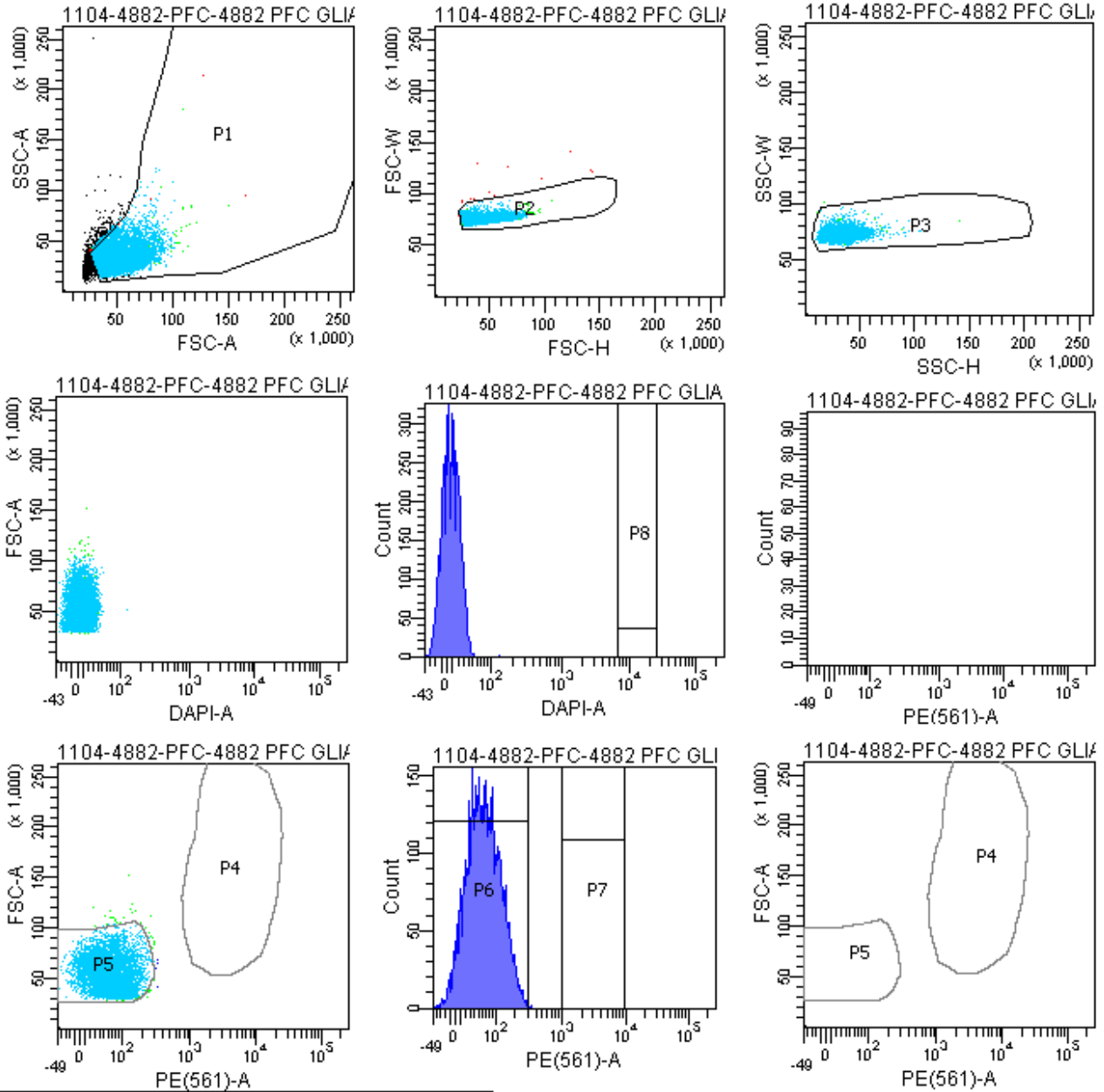


Tube: 4882 PFC PE ONLY SAMPLE

Population	#Events	%Parent	%Total
All Events	26,520	###	100.0
P1	21,160	79.8	79.8
P2	15,967	75.5	60.2
P3	15,537	97.3	58.6
P4	2,428	15.6	9.2
P5	8,047	51.8	30.3
P6	9,170	59.0	34.6
P7	2,111	13.6	8.0
P8	0	0.0	0.0
P9	3,369	21.7	12.7

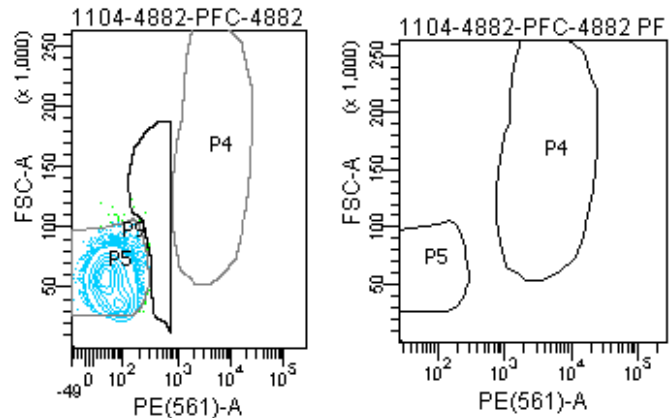


FACSDiva Version 6.1.3

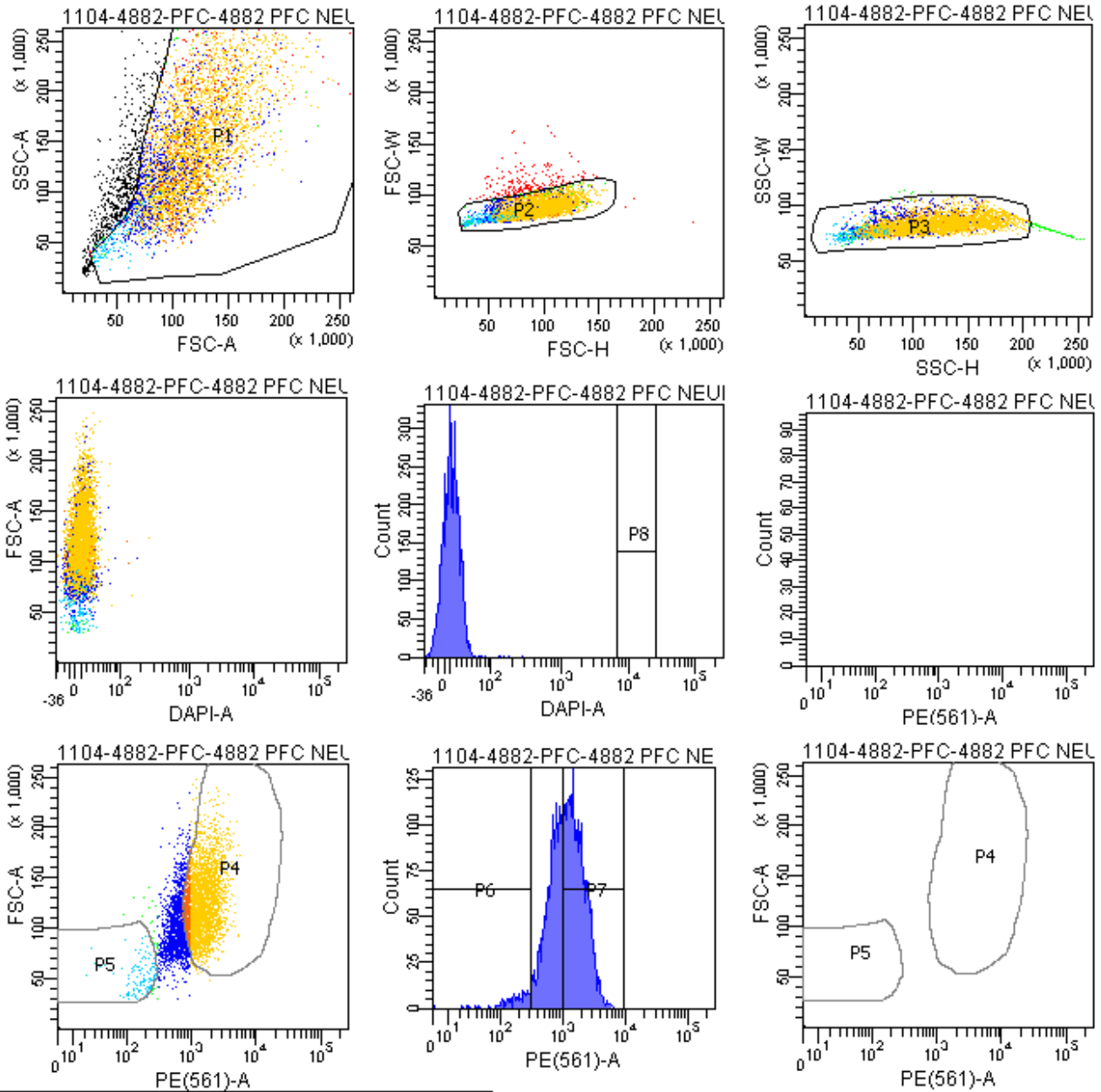


Tube: 4882 PFC GLIA BACK

Population	#Events	%Parent	%Total
All Events	6,855	###	100.0
P1	5,429	79.2	79.2
P2	5,391	99.3	78.6
P3	5,389	100.0	78.6
P4	0	0.0	0.0
P5	5,325	98.8	77.7
P6	5,384	99.9	78.5
P7	0	0.0	0.0
P8	0	0.0	0.0
P9	10	0.2	0.1

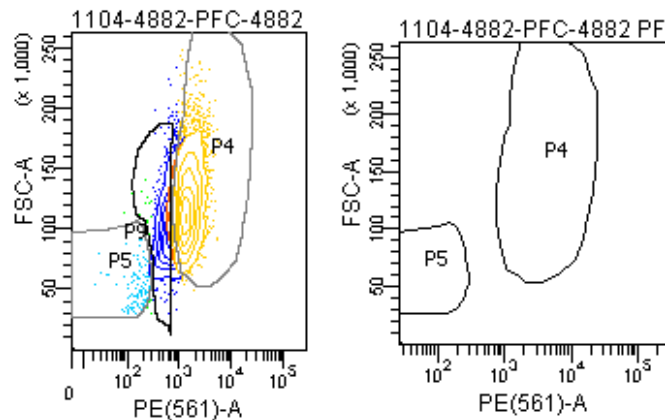


FACSDiva Version 6.1.3

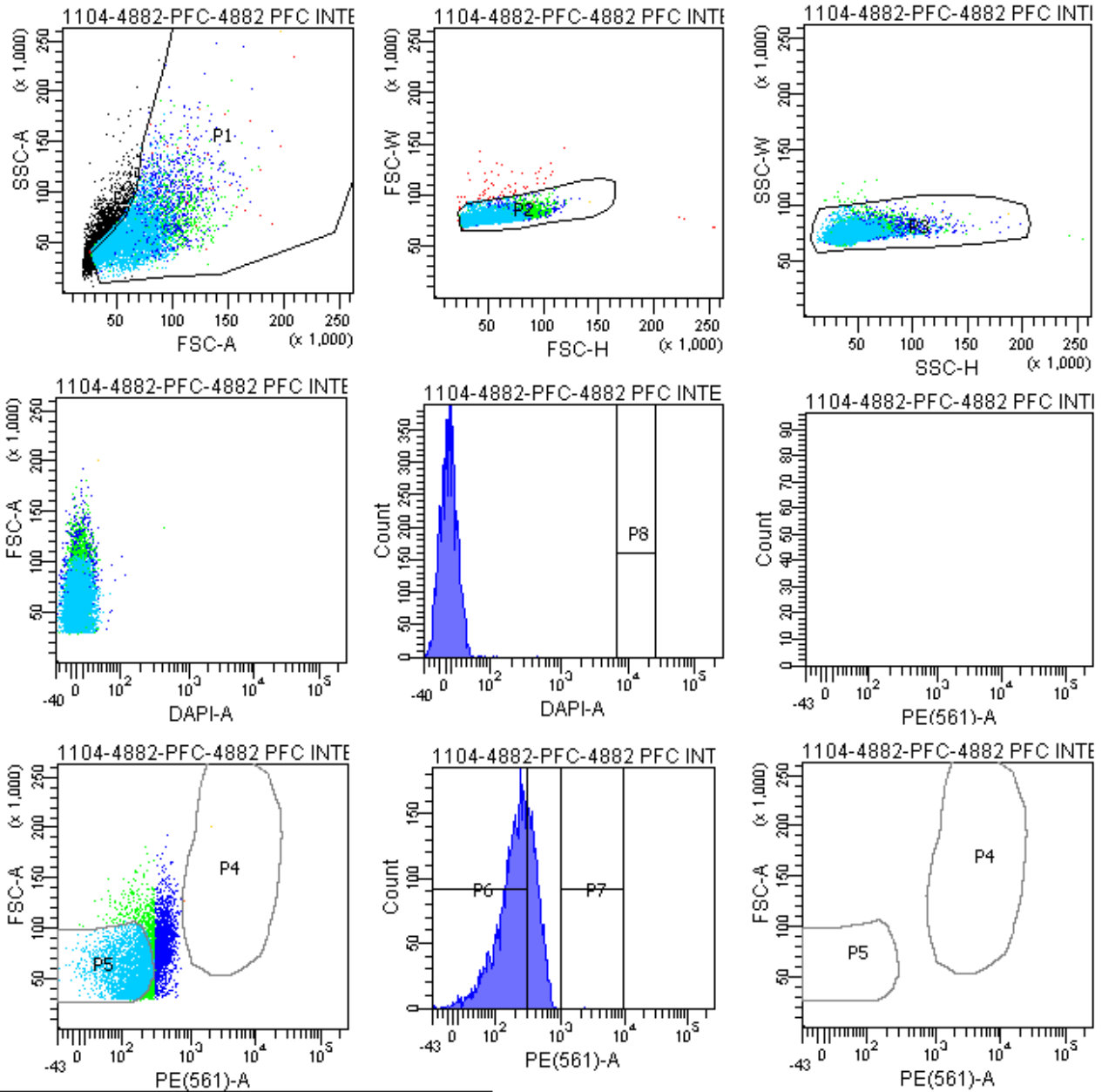


Tube: 4882 PFC NEURON BACK

Population	#Events	%Parent	%Total
All Events	5,432	###	100.0
P1	4,845	89.2	89.2
P2	4,652	96.0	85.6
P3	4,551	97.8	83.8
P4	3,016	66.3	55.5
P5	124	2.7	2.3
P6	158	3.5	2.9
P7	2,586	56.8	47.6
P8	0	0.0	0.0
P9	965	21.2	17.8

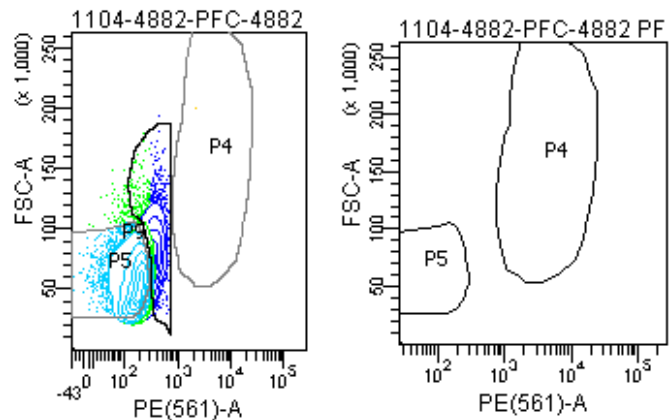


FACSDiva Version 6.1.3

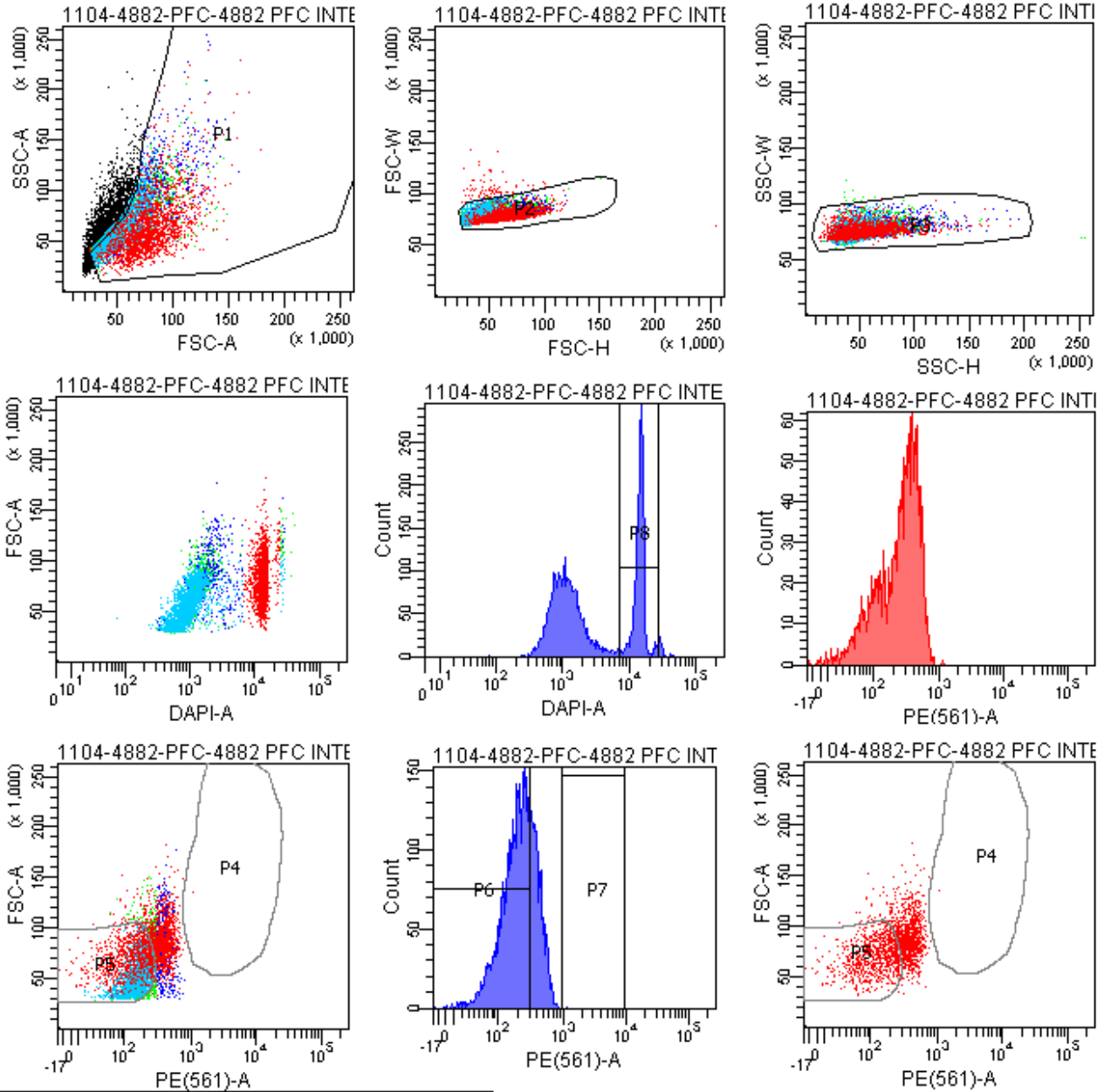


Tube: 4882 PFC INTER BACK

Population	#Events	%Parent	%Total
All Events	7,851	###	100.0
P1	6,105	77.8	77.8
P2	6,009	98.4	76.5
P3	5,990	99.7	76.3
P4	2	0.0	0.0
P5	3,438	57.4	43.8
P6	4,214	70.4	53.7
P7	1	0.0	0.0
P8	0	0.0	0.0
P9	1,939	32.4	24.7

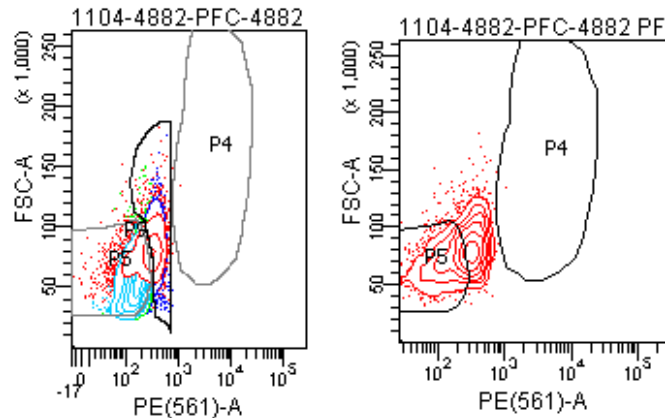


FACSDiva Version 6.1.3

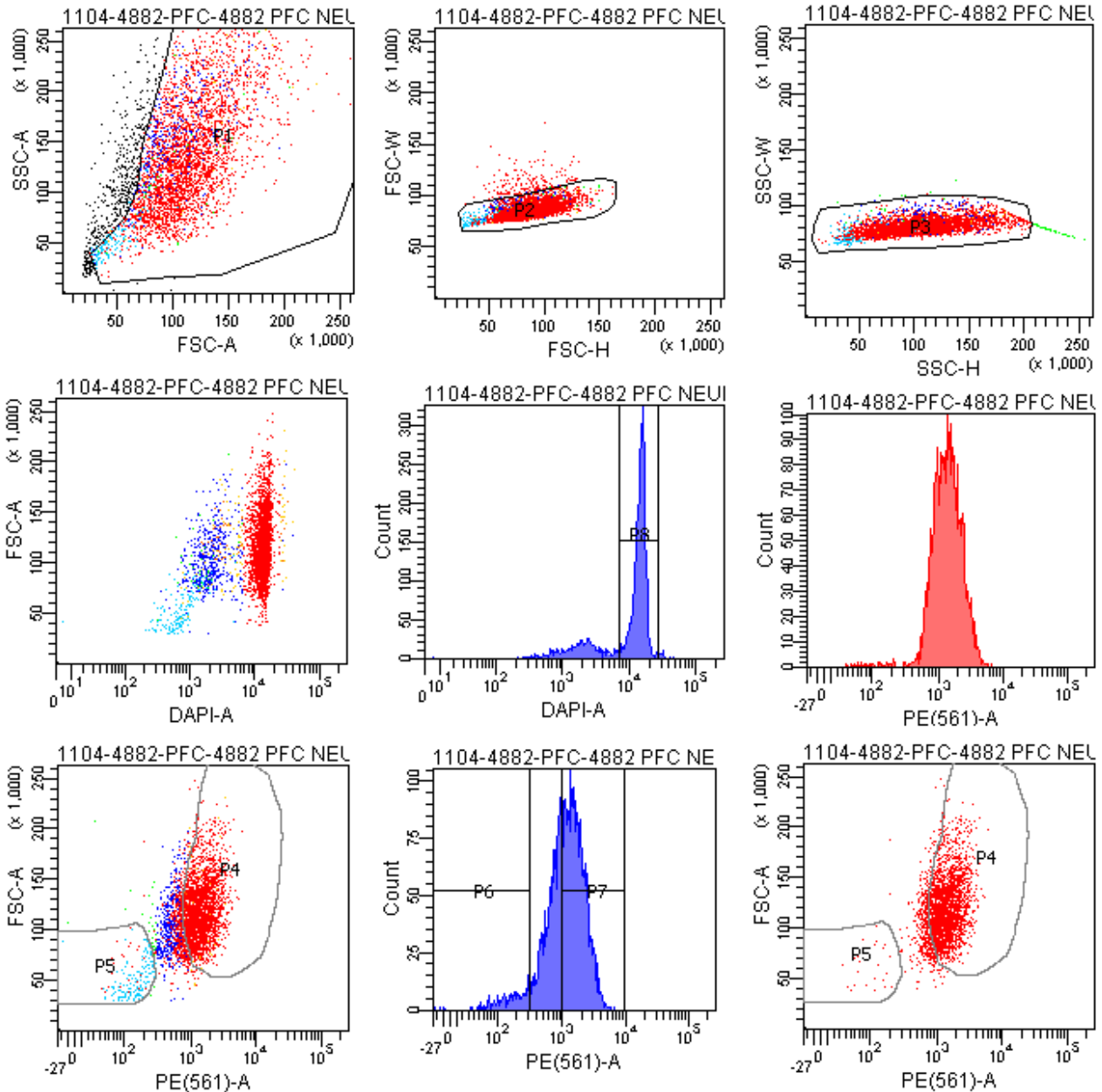


Tube: 4882 PFC INTER BACK+DAPI

Population	#Events	%Parent	%Total
All Events	7,269	###	100.0
P1	5,122	70.5	70.5
P2	5,017	98.0	69.0
P3	5,002	99.7	68.8
P4	2	0.0	0.0
P5	3,056	61.1	42.0
P6	3,625	72.5	49.9
P7	1	0.0	0.0
P8	1,882	37.6	25.9
P9	1,553	31.0	21.4

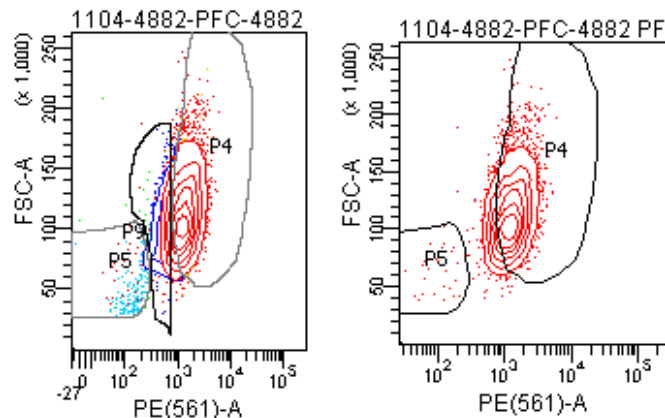


FACSDiva Version 6.1.3



Tube: 4882 PFC NEURON BACK+DAPI

Population	#Events	%Parent	%Total
All Events	4,252	###	100.0
P1	3,789	89.1	89.1
P2	3,627	95.7	85.3
P3	3,564	98.3	83.8
P4	2,385	66.9	56.1
P5	183	5.1	4.3
P6	223	6.3	5.2
P7	2,041	57.3	48.0
P8	2,752	77.2	64.7
P9	670	18.8	15.8

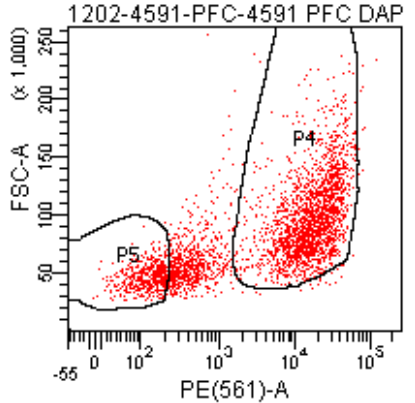
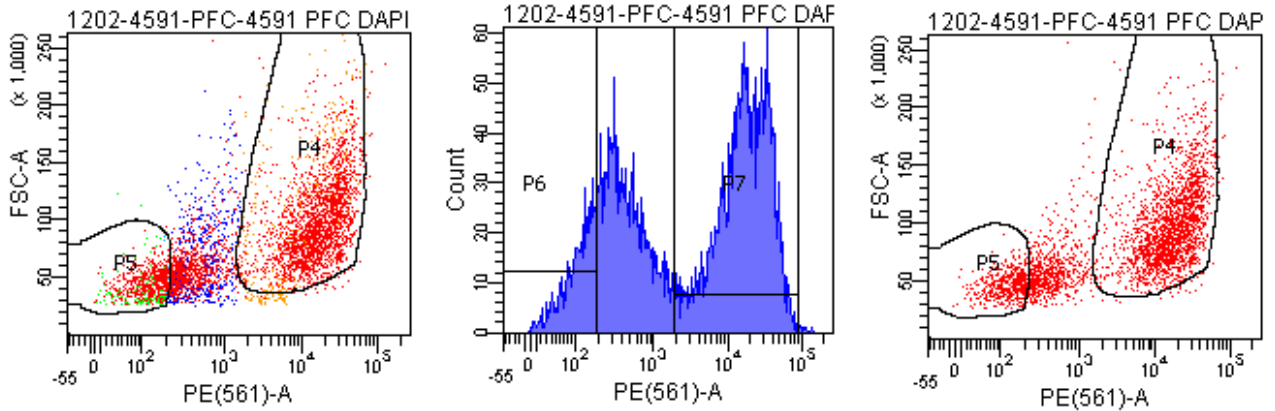
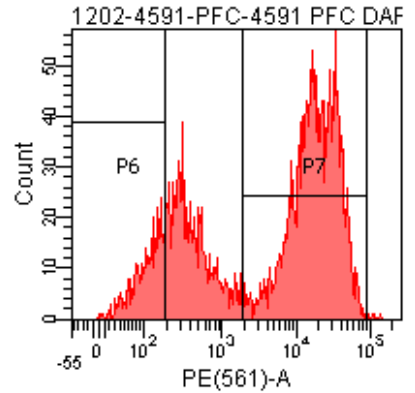
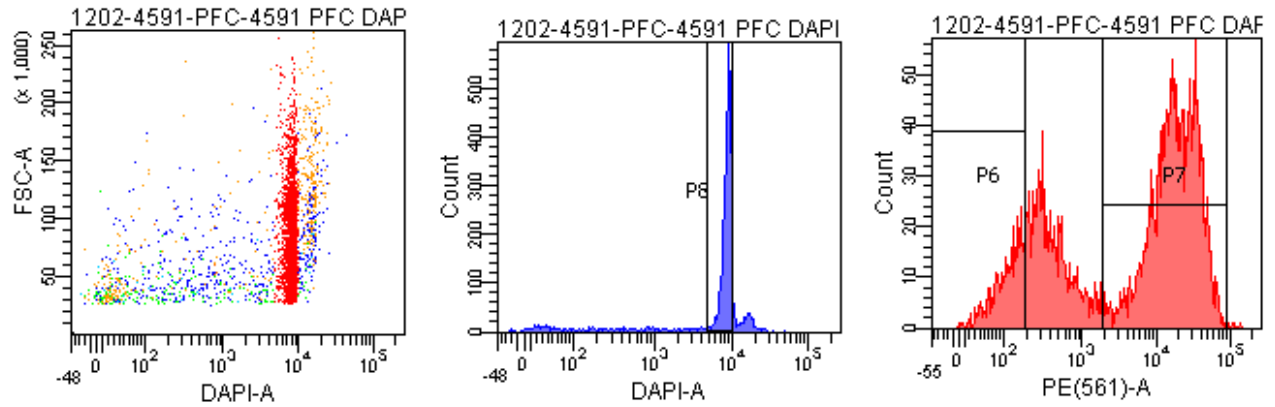
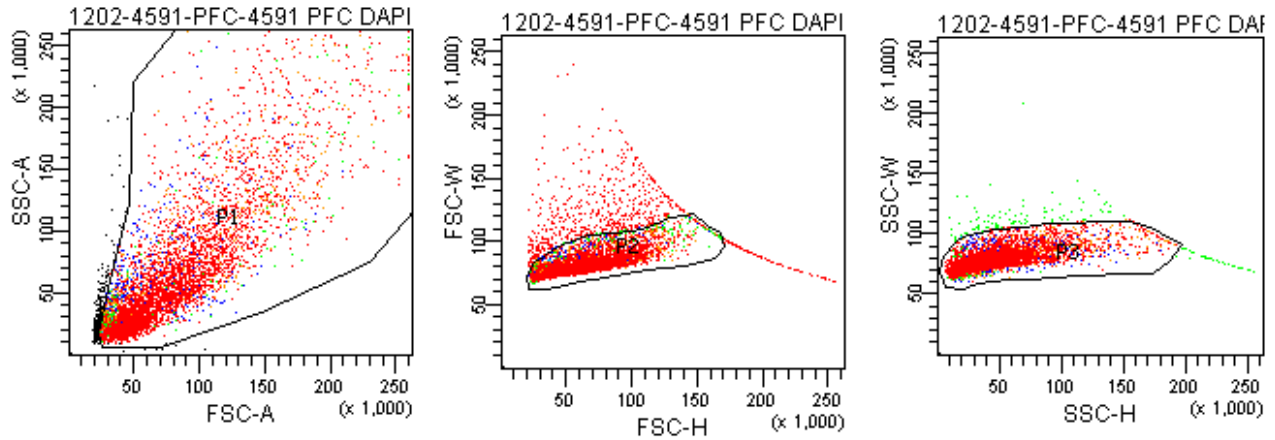


The BD Arial II FACS sorting reports of UMB#4591

Sample: prefrontal cortex

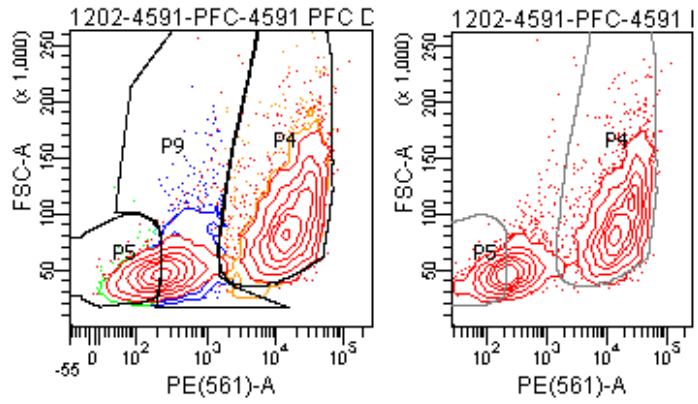
Category: healthy control

FACSDiva Version 6.1.3

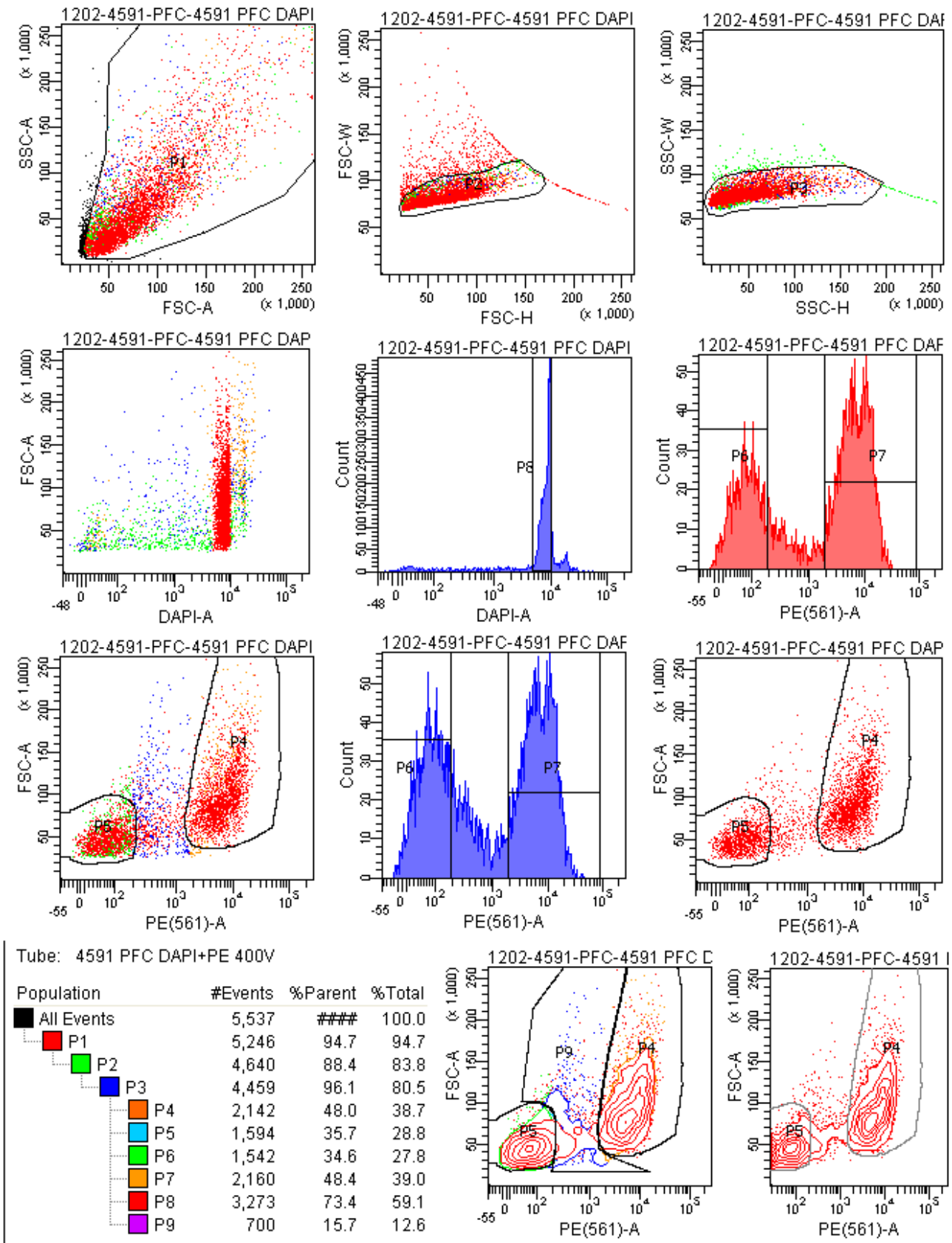


Tube: 4591 PFC DAPI+PE 457V

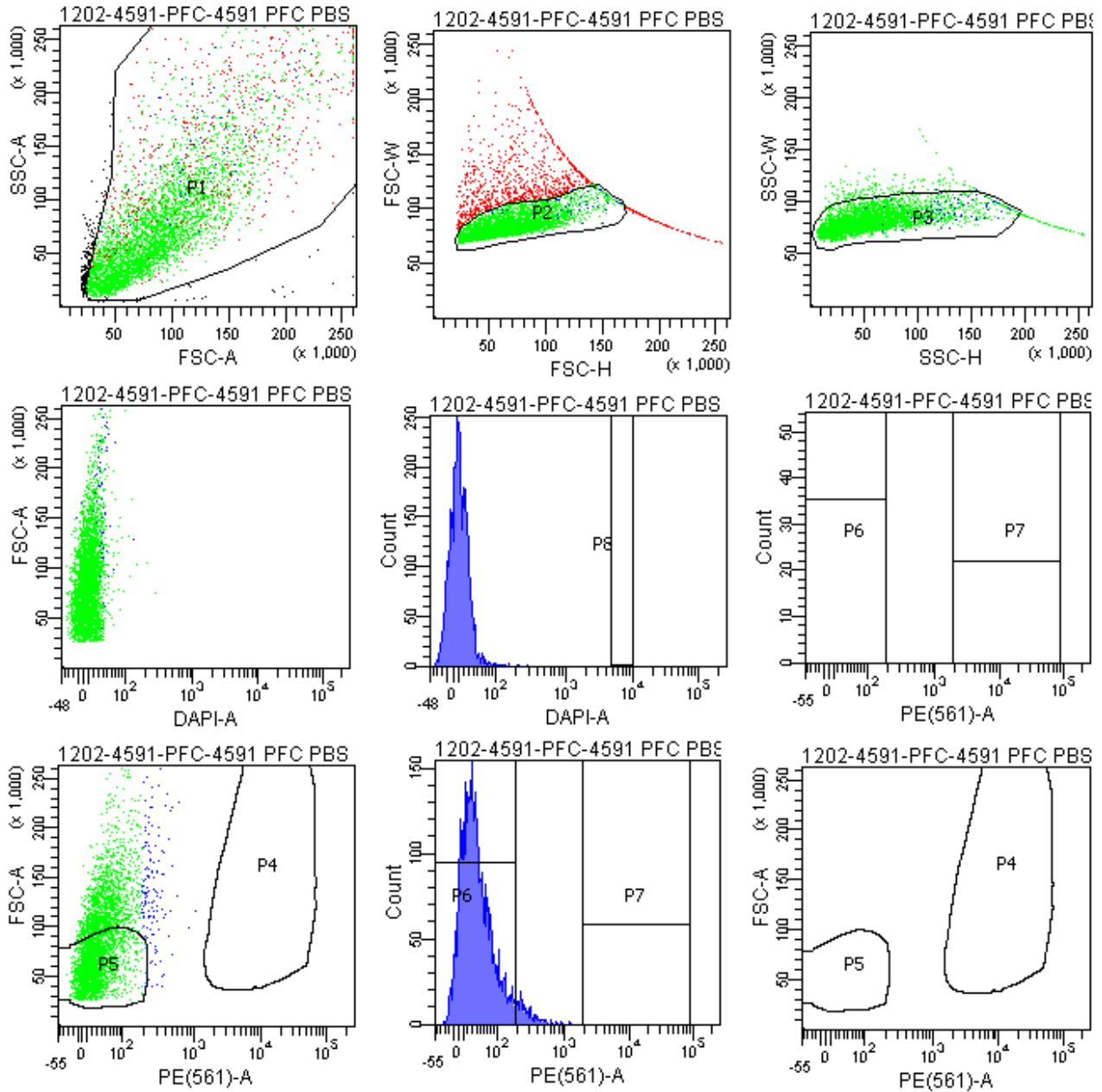
Population	#Events	%Parent	%Total
All Events	5,491	###	100.0
P1	5,243	95.5	95.5
P2	4,525	86.3	82.4
P3	4,348	96.1	79.2
P4	2,280	52.4	41.5
P5	708	16.3	12.9
P6	592	13.6	10.8
P7	2,383	54.8	43.4
P8	3,262	75.0	59.4
P9	1,245	28.6	22.7



FACSDiva Version 6.1.3

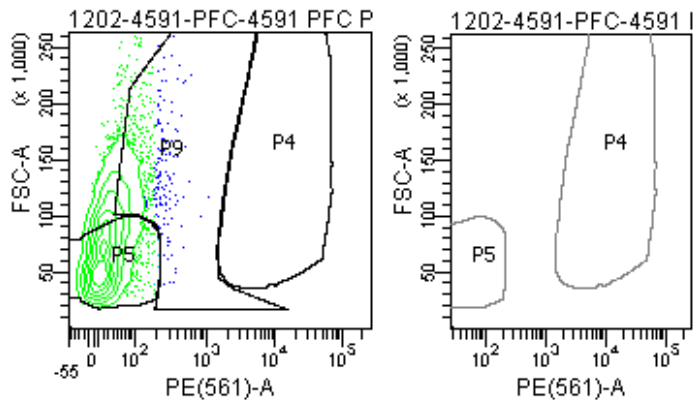


FACSDiva Version 6.1.3

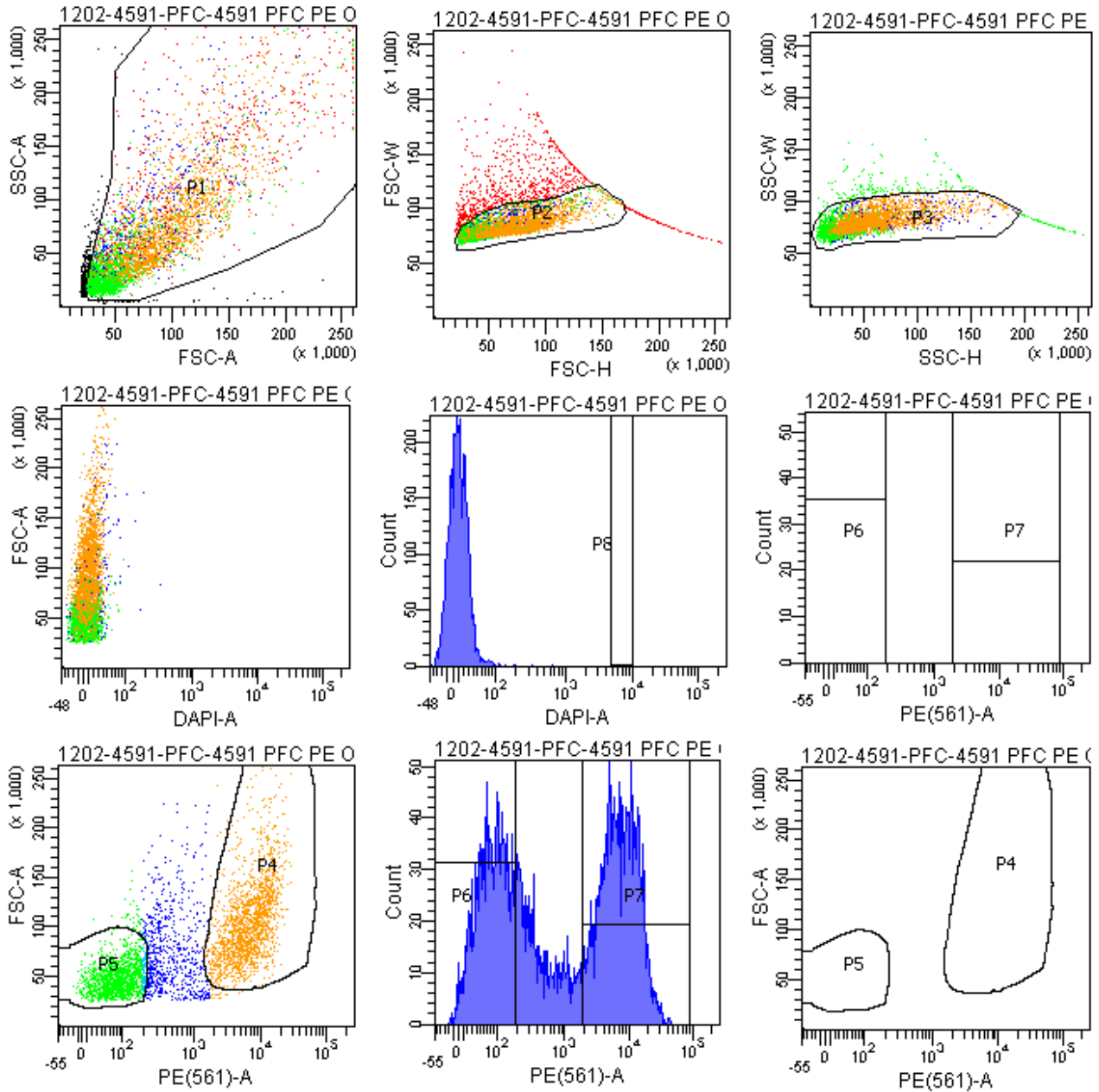


Tube: 4591 PFC PBS CONTROL

Population	#Events	%Parent	%Total
All Events	5,512	###	100.0
P1	5,258	95.4	95.4
P2	4,238	80.6	76.9
P3	4,001	94.4	72.6
P4	0	0.0	0.0
P5	2,456	61.4	44.6
P6	3,843	96.1	69.7
P7	0	0.0	0.0
P8	0	0.0	0.0
P9	704	17.6	12.8

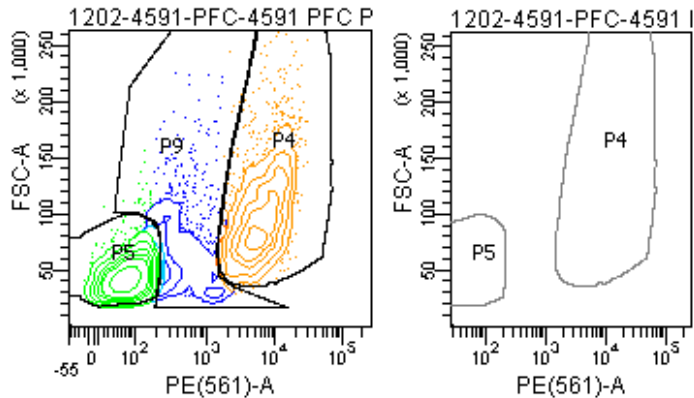


FACSDiva Version 6.1.3

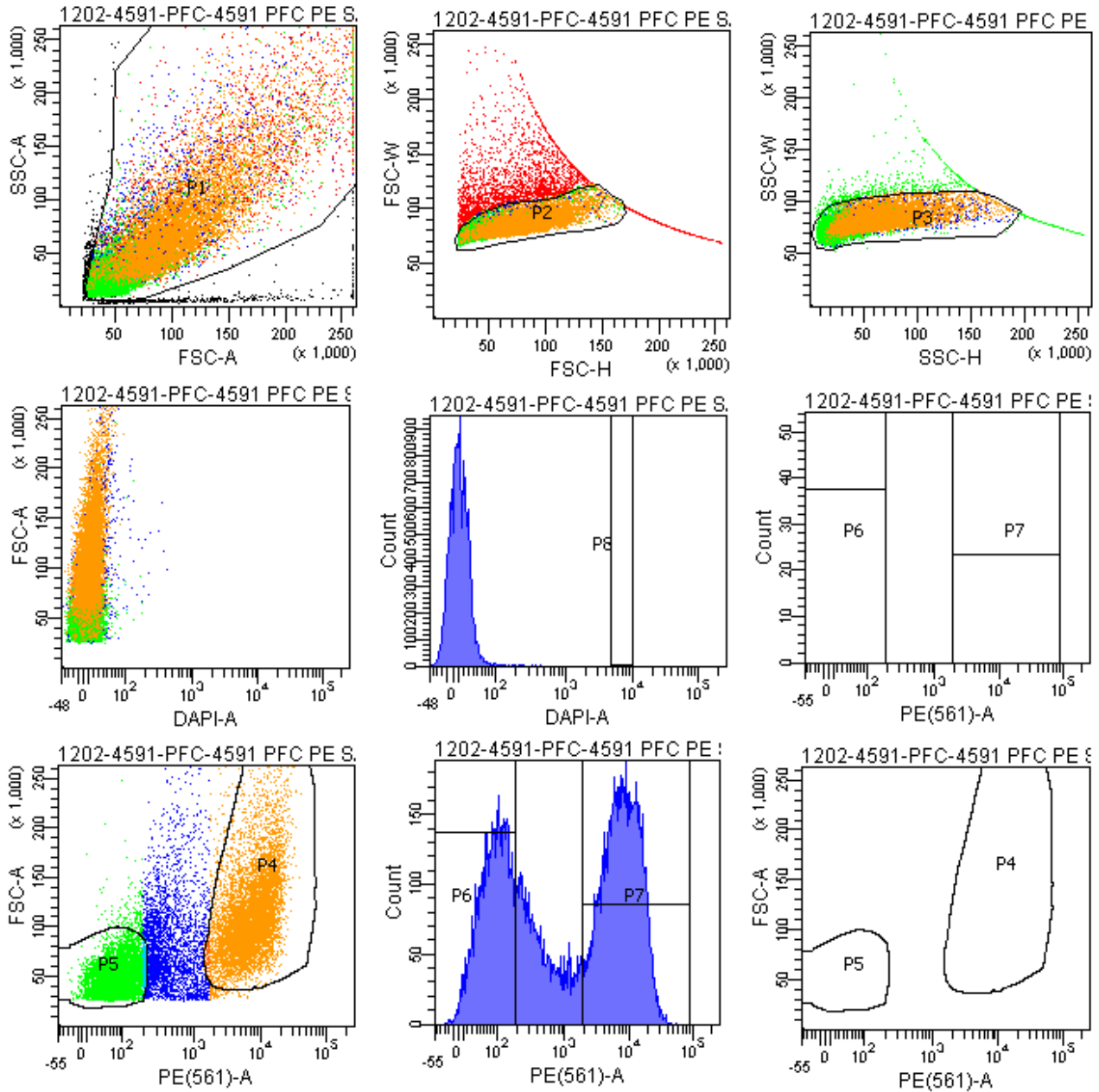


Tube: 4591 PFC PE ONLY CONTROL

Population	#Events	%Parent	%Total
All Events	5,570	###	100.0
P1	5,188	93.1	93.1
P2	4,300	82.9	77.2
P3	4,070	94.7	73.1
P4	1,824	44.8	32.7
P5	1,501	36.9	26.9
P6	1,417	34.8	25.4
P7	1,839	45.2	33.0
P8	0	0.0	0.0
P9	719	17.7	12.9

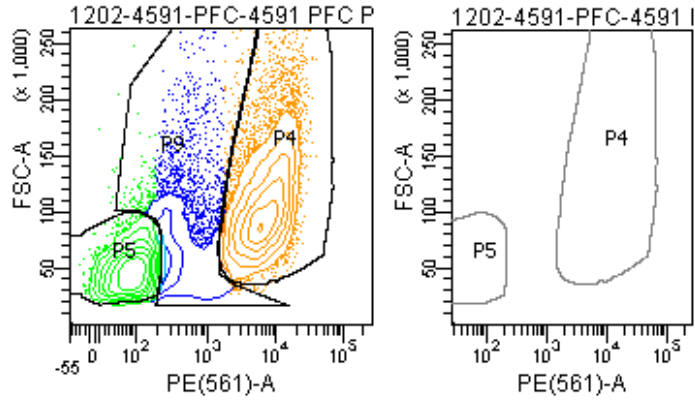


FACSDiva Version 6.1.3

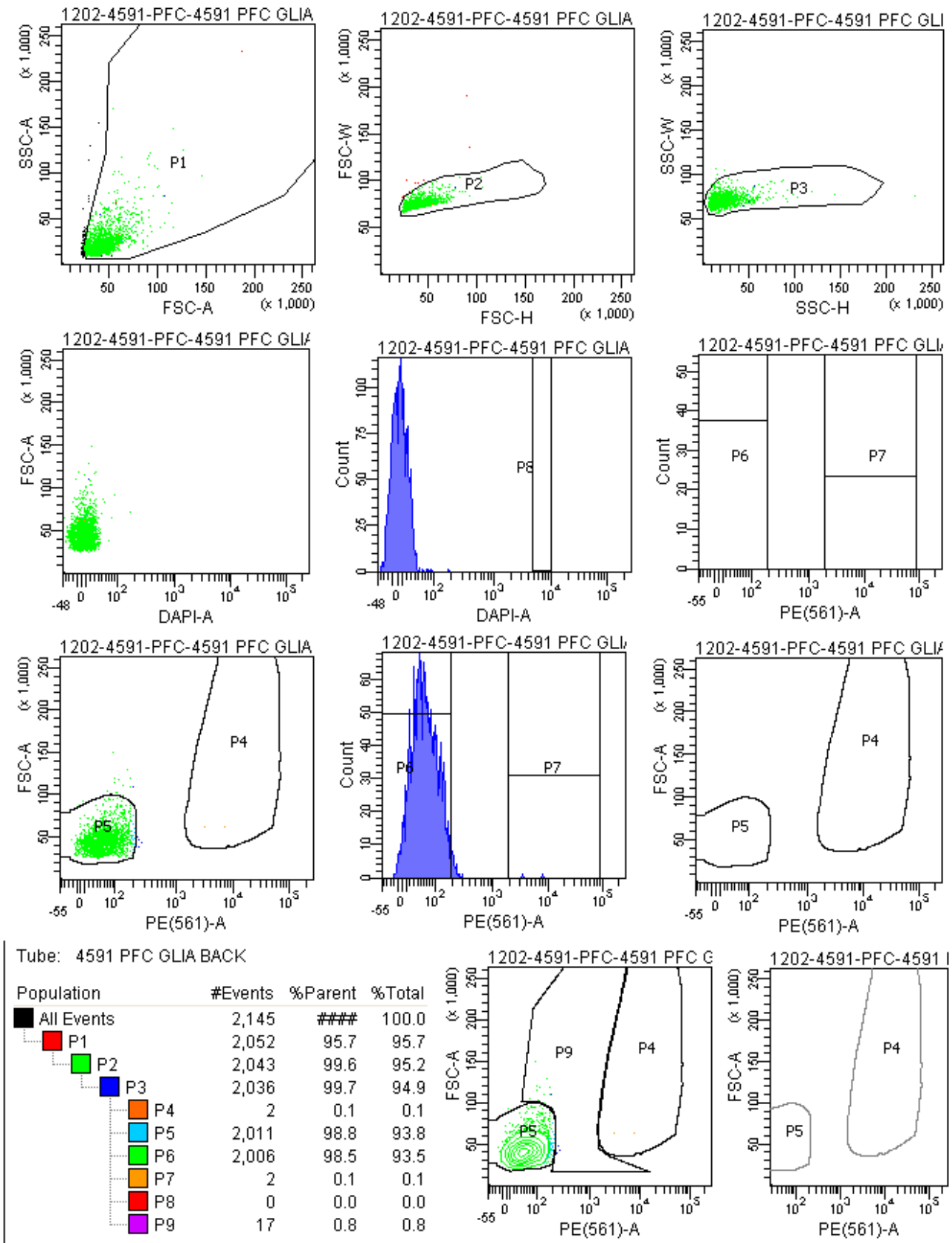


Tube: 4591 PFC PE SAMPLE

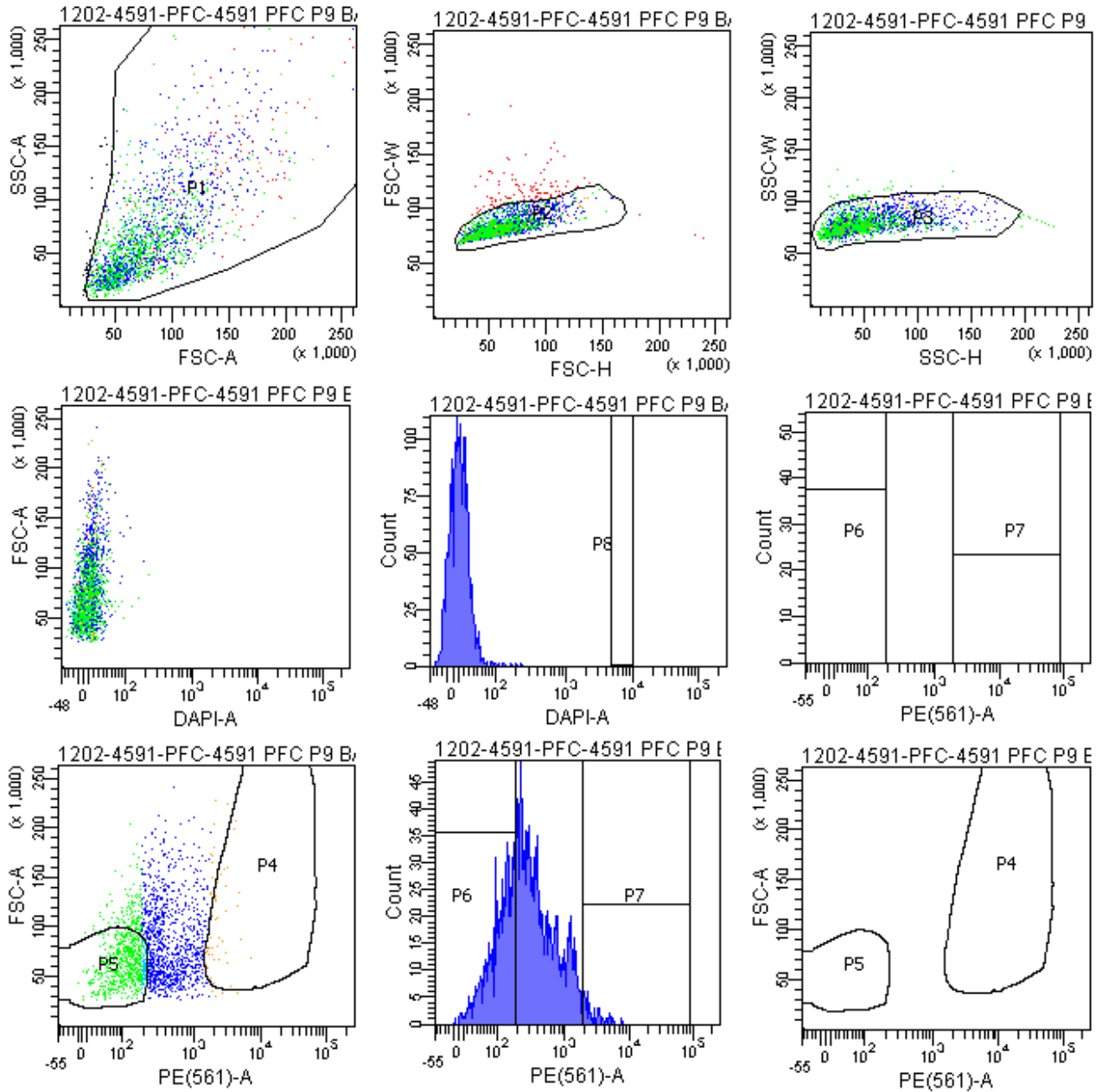
Population	#Events	%Parent	%Total
All Events	20,982	###	100.0
P1	20,000	95.3	95.3
P2	16,723	83.6	79.7
P3	16,035	95.9	76.4
P4	7,586	47.3	36.2
P5	5,352	33.4	25.5
P6	5,137	32.0	24.5
P7	7,646	47.7	36.4
P8	0	0.0	0.0
P9	3,021	18.8	14.4



FACSDiva Version 6.1.3

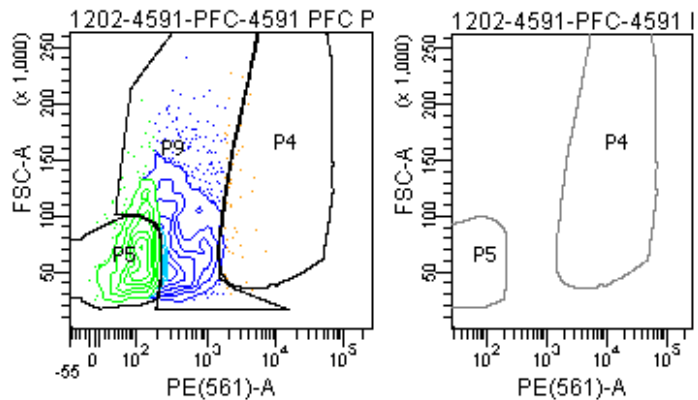


FACSDiva Version 6.1.3

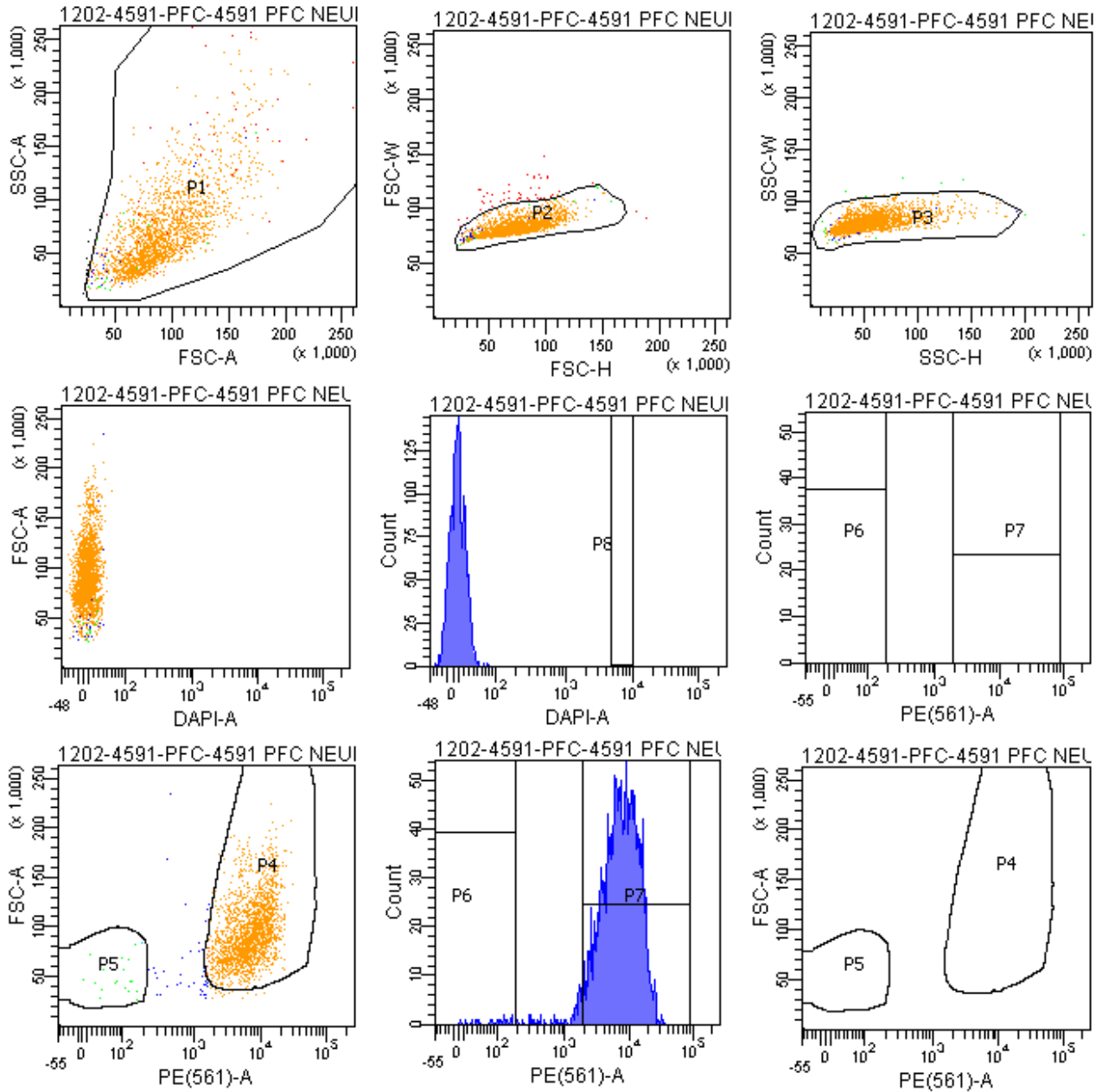


Tube: 4591 PFC P9 BACK

Population	#Events	%Parent	%Total
All Events	2,106	###	100.0
P1	2,069	98.2	98.2
P2	1,962	94.8	93.2
P3	1,920	97.9	91.2
P4	47	2.4	2.2
P5	682	35.5	32.4
P6	688	35.8	32.7
P7	50	2.6	2.4
P8	0	0.0	0.0
P9	1,173	61.1	55.7

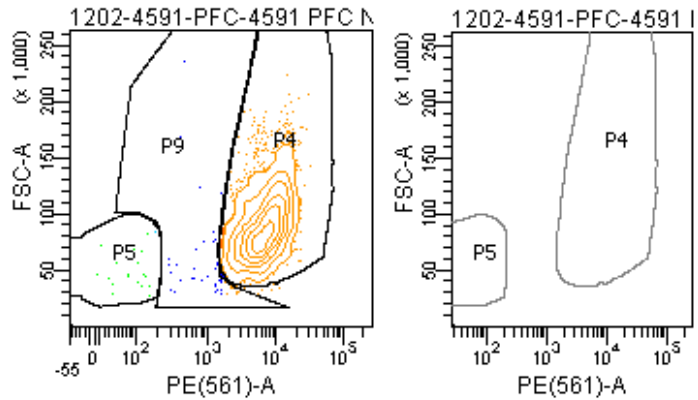


FACSDiva Version 6.1.3



Tube: 4591 PFC NEURON BACK

Population	#Events	%Parent	%Total
All Events	2,127	###	100.0
P1	2,114	99.4	99.4
P2	2,065	97.7	97.1
P3	2,058	99.7	96.8
P4	1,973	95.9	92.8
P5	20	1.0	0.9
P6	19	0.9	0.9
P7	1,980	96.2	93.1
P8	0	0.0	0.0
P9	56	2.7	2.6

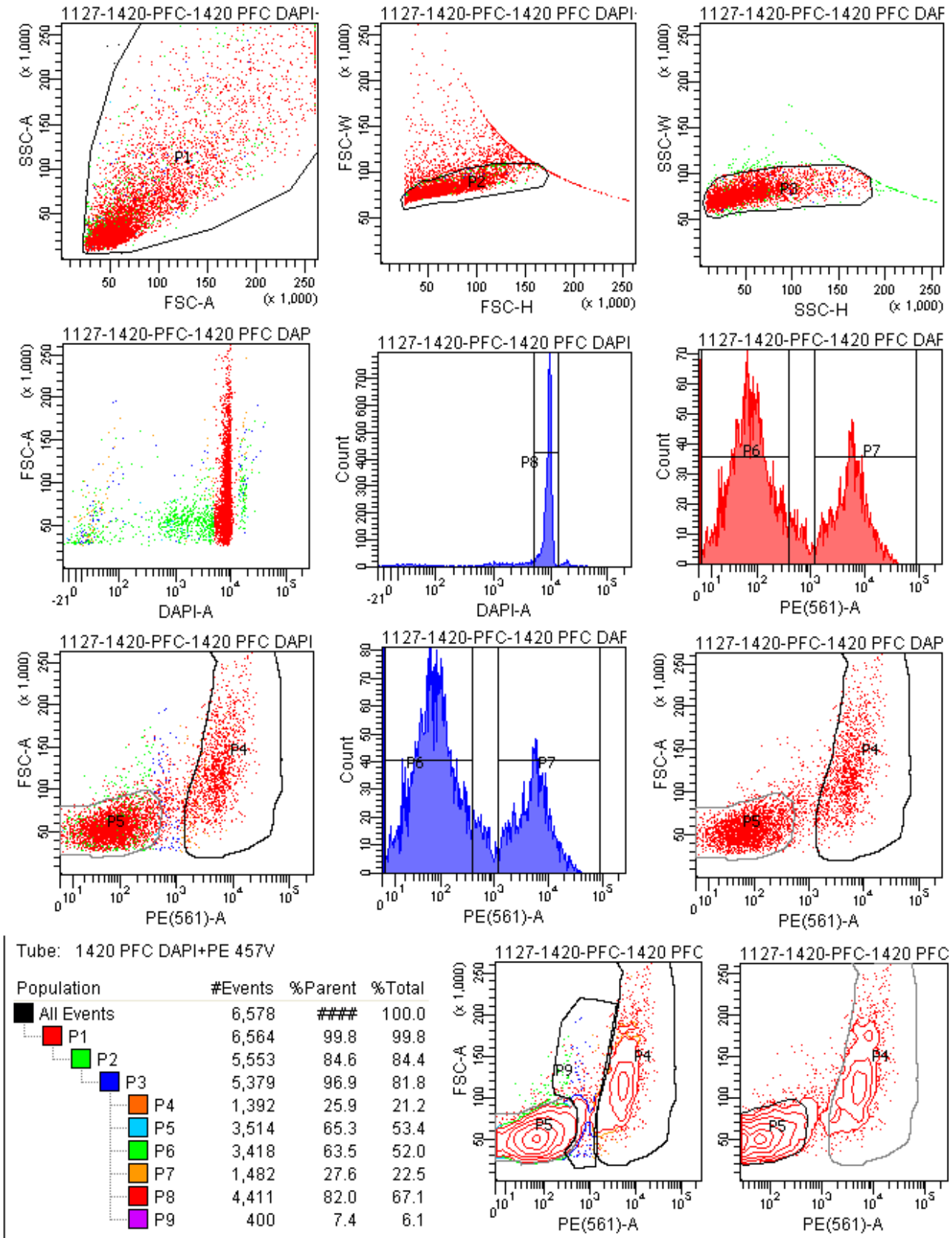


The BD Arial II FACS sorting reports of UMB#1420

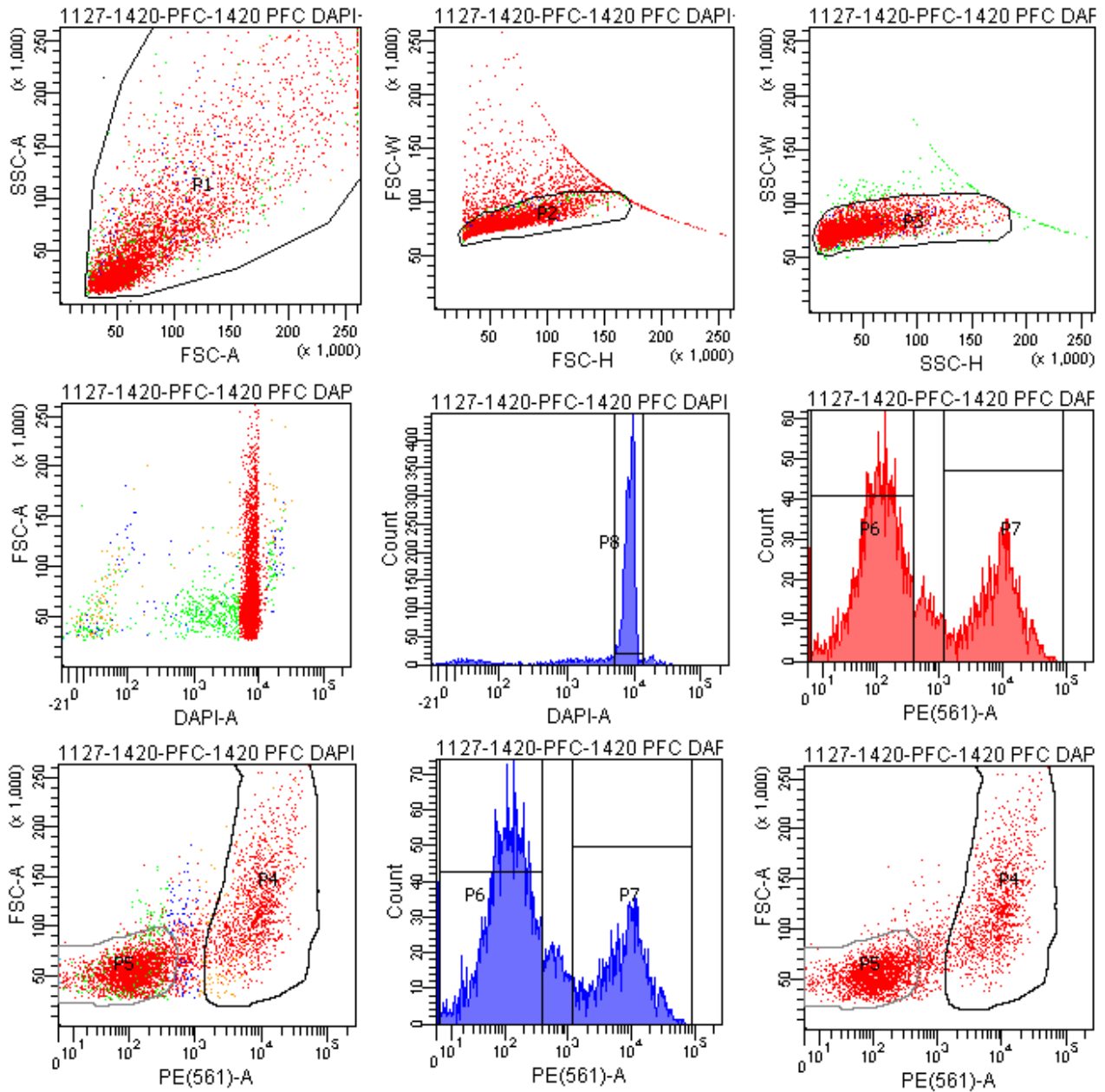
Sample: prefrontal cortex

Category: Rett patient

FACSDiva Version 6.1.3

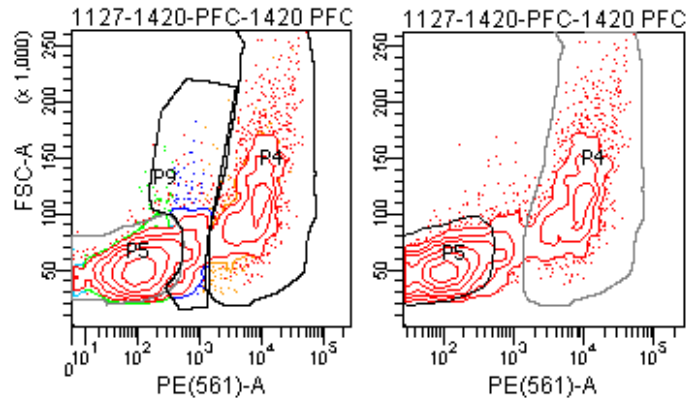


FACSDiva Version 6.1.3

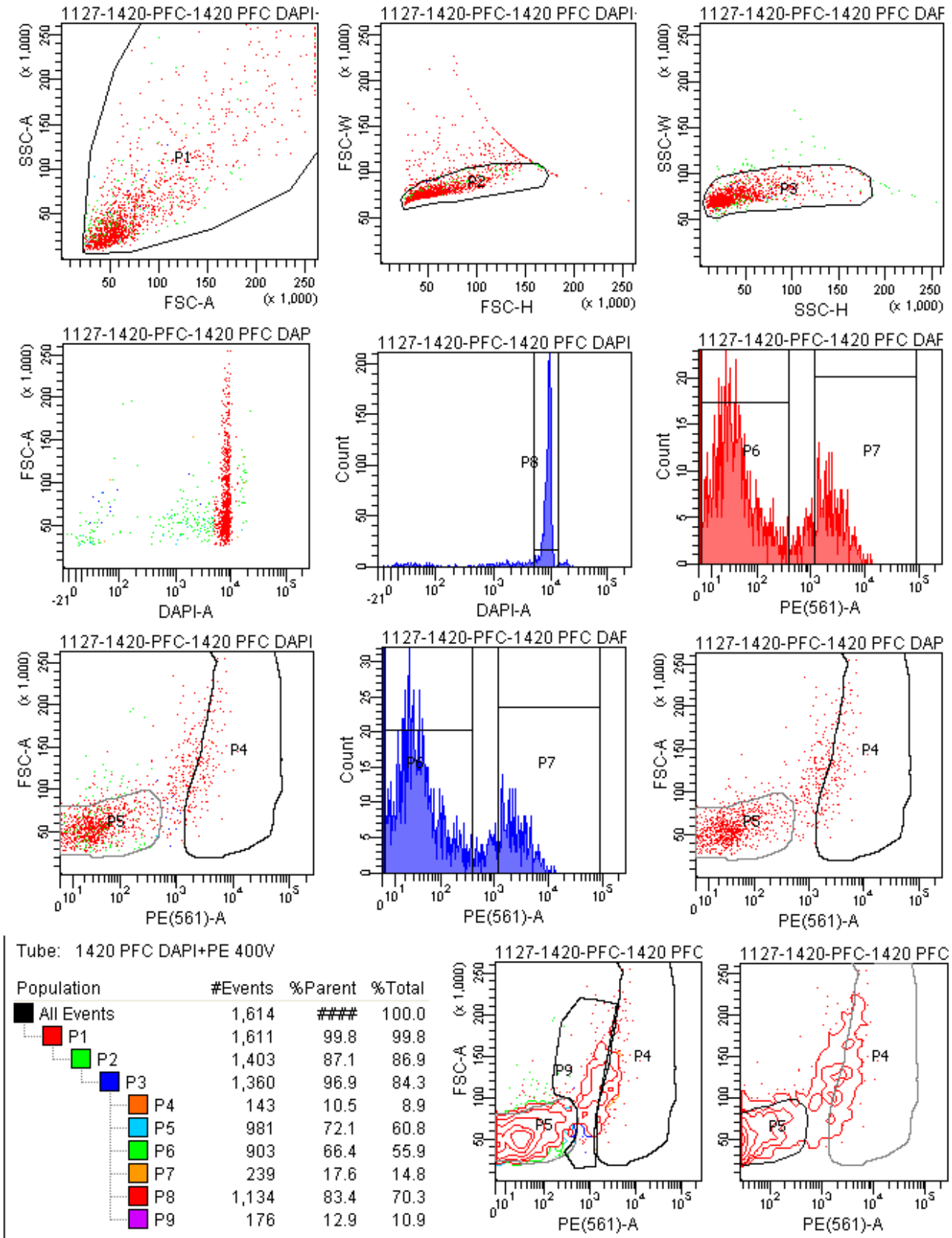


Tube: 1420 PFC DAPI+PE 500V

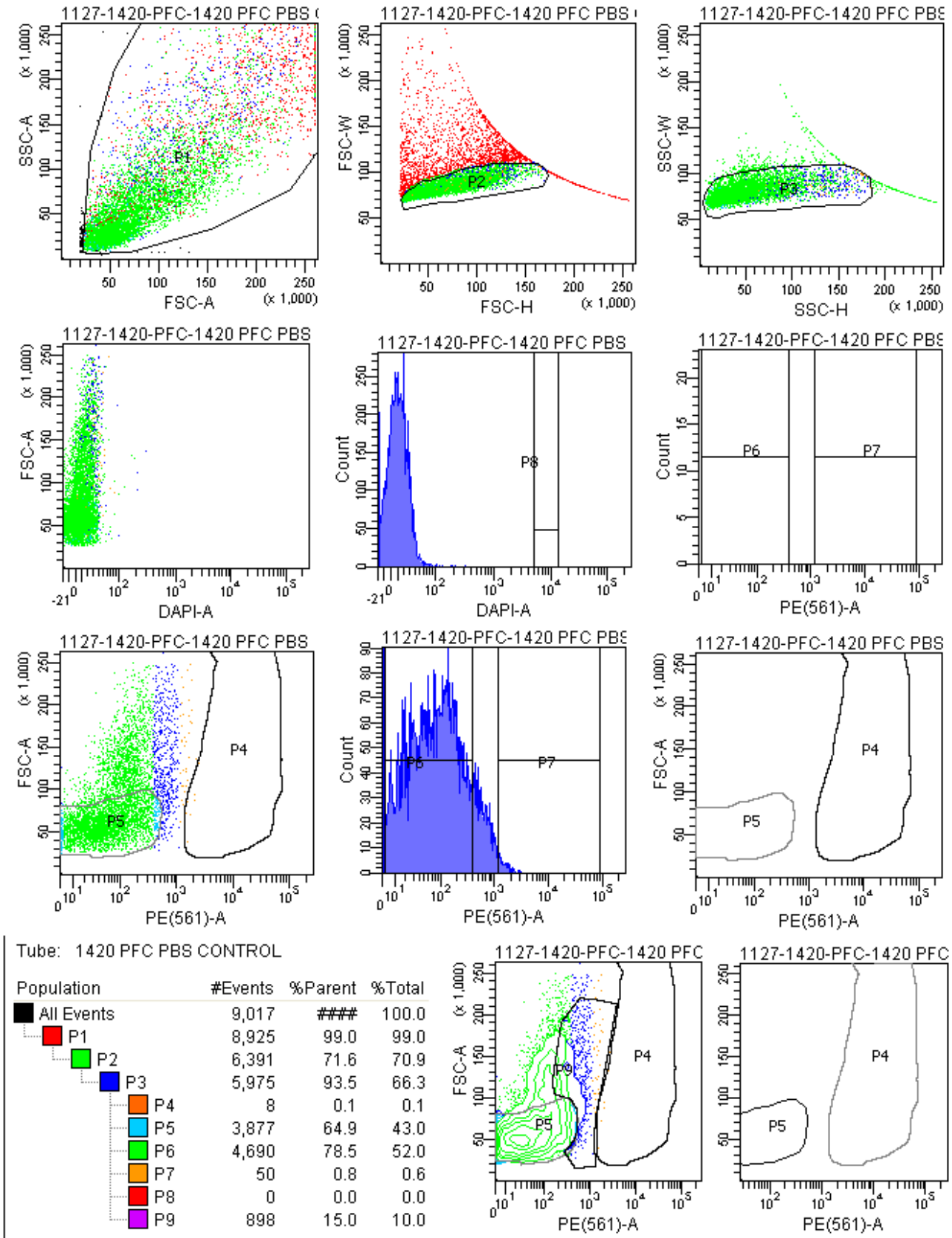
Population	#Events	%Parent	%Total
All Events	5,528	###	100.0
P1	5,519	99.8	99.8
P2	4,628	83.9	83.7
P3	4,465	96.5	80.8
P4	1,248	28.0	22.6
P5	2,697	60.4	48.8
P6	2,640	59.1	47.8
P7	1,311	29.4	23.7
P8	3,665	82.1	66.3
P9	496	11.1	9.0



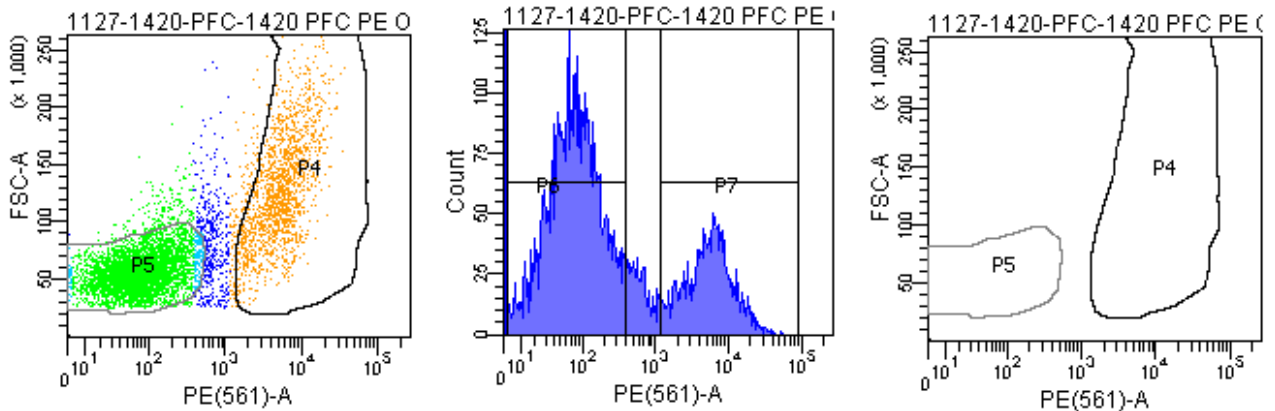
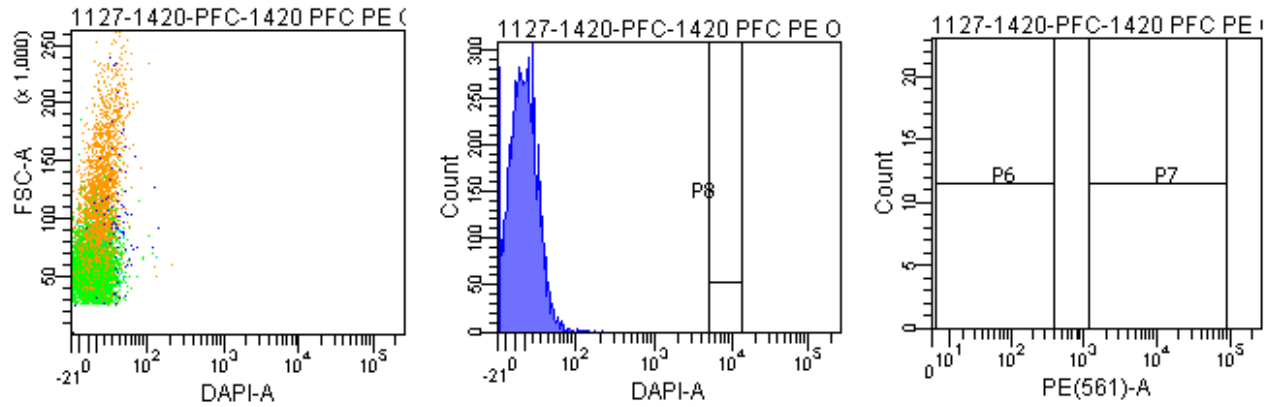
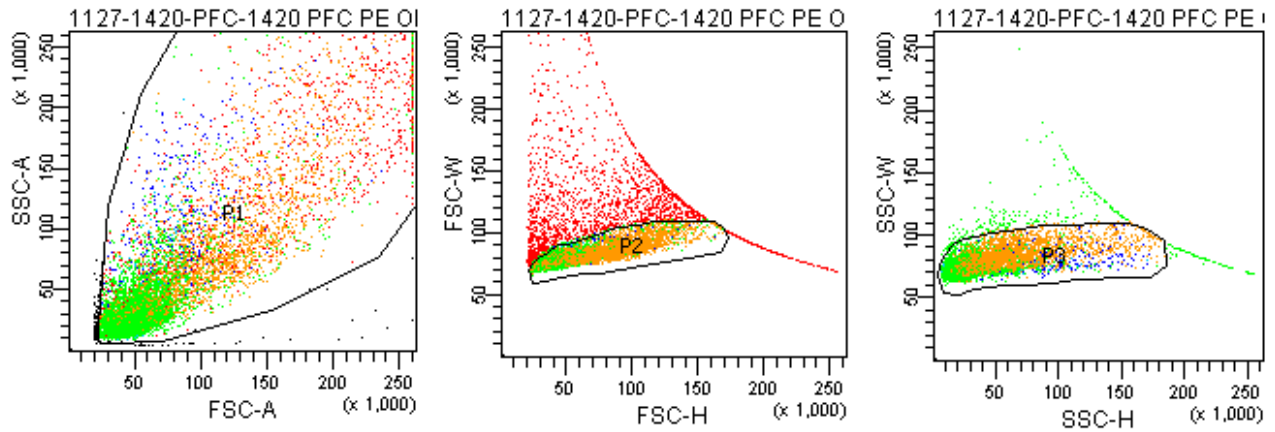
FACSDiva Version 6.1.3



FACSDiva Version 6.1.3

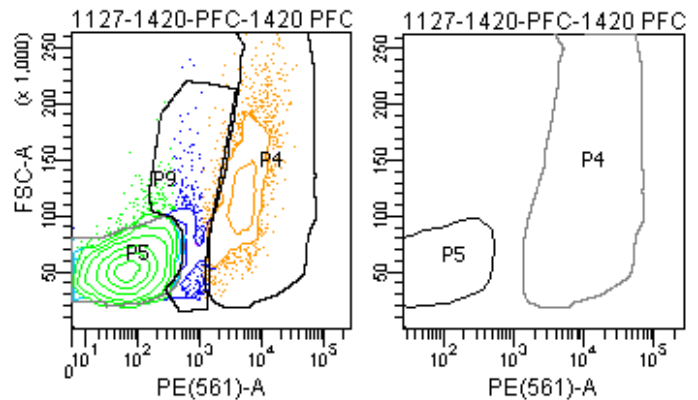


FACSDiva Version 6.1.3

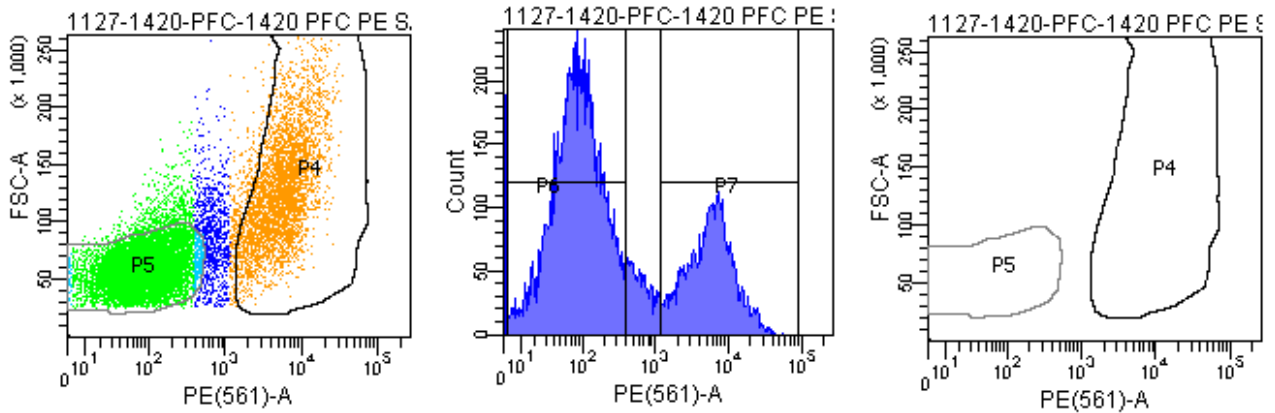
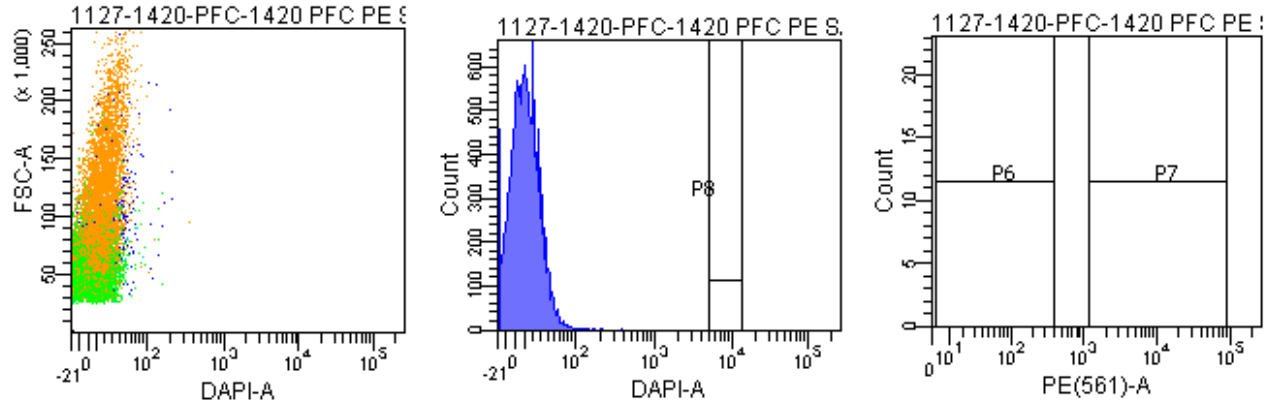
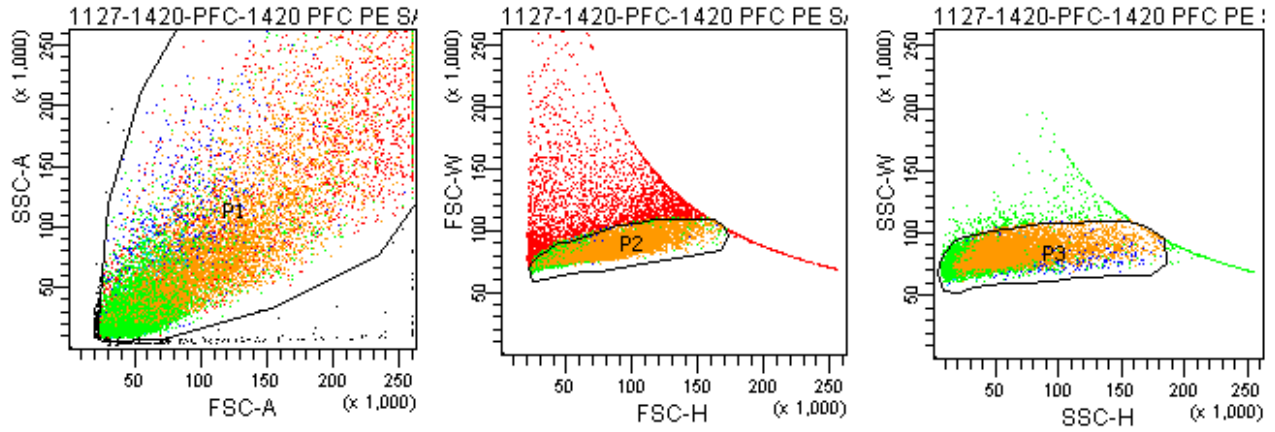


Tube: 1420 PFC PE ONLY SAMPLE

Population	#Events	%Parent	%Total
All Events	10,168	###	100.0
P1	10,000	98.3	98.3
P2	7,642	76.4	75.2
P3	7,300	95.5	71.8
P4	1,626	22.3	16.0
P5	4,939	67.7	48.6
P6	4,824	66.1	47.4
P7	1,744	23.9	17.2
P8	0	0.0	0.0
P9	613	8.4	6.0

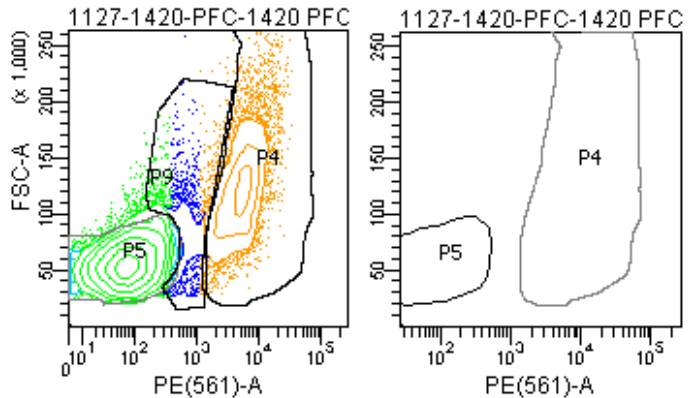


FACSDiva Version 6.1.3

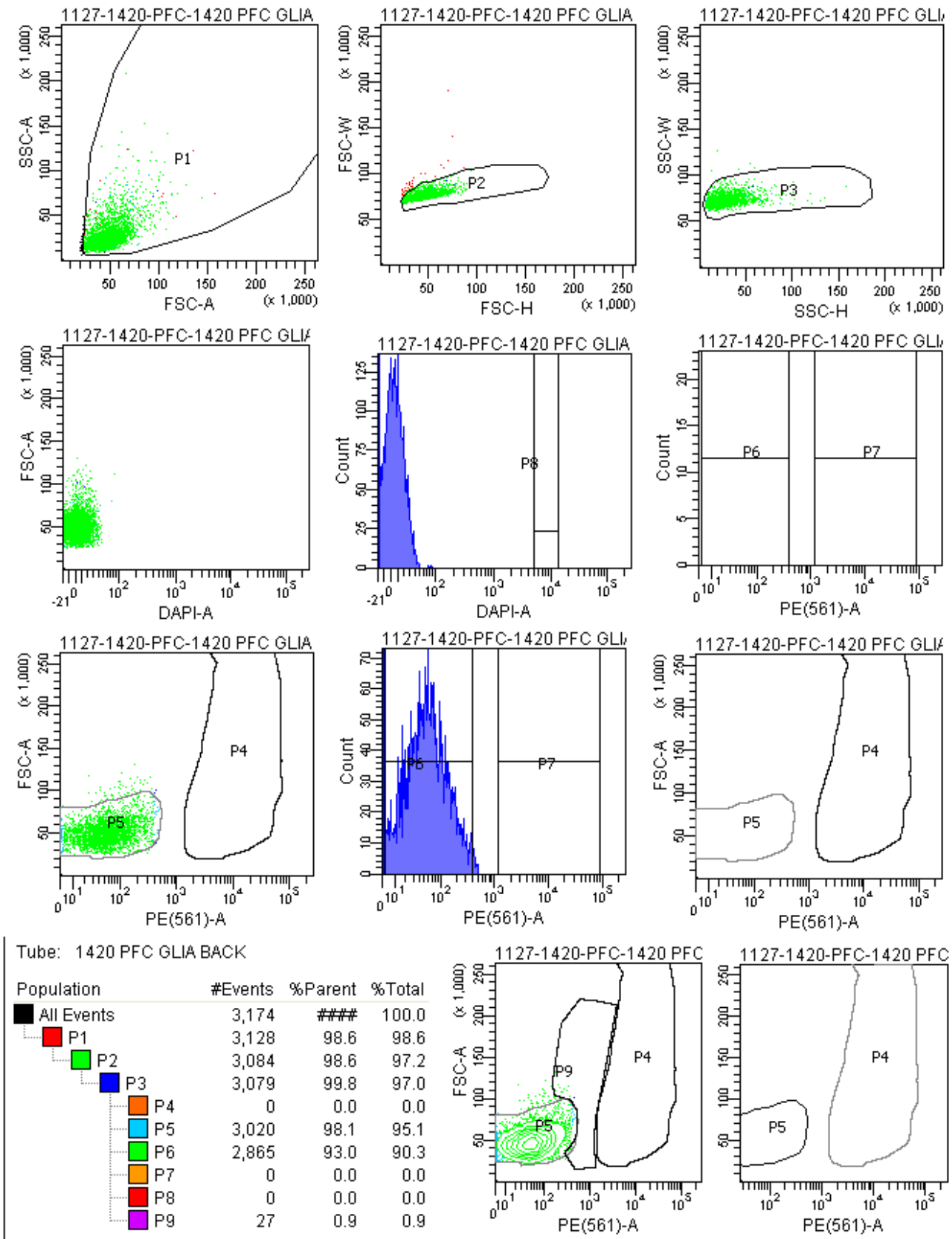


Tube: 1420 PFC PE SAMPLE

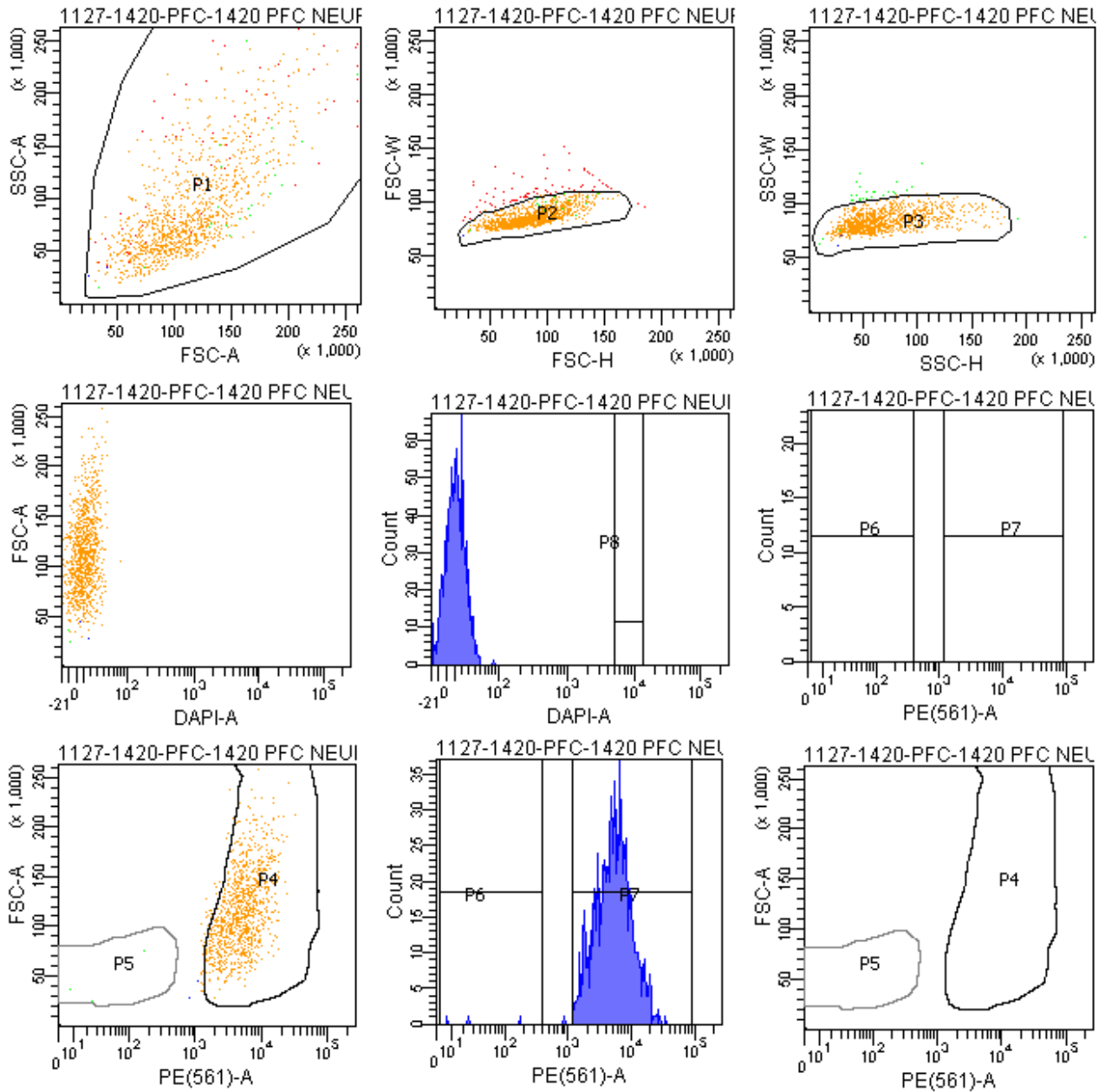
Population	#Events	%Parent	%Total
All Events	20,378	###	100.0
P1	20,000	98.1	98.1
P2	15,820	79.1	77.6
P3	15,235	96.3	74.8
P4	3,911	25.7	19.2
P5	9,697	63.6	47.6
P6	9,709	63.7	47.6
P7	4,181	27.4	20.5
P8	0	0.0	0.0
P9	1,308	8.6	6.4



FACSDiva Version 6.1.3

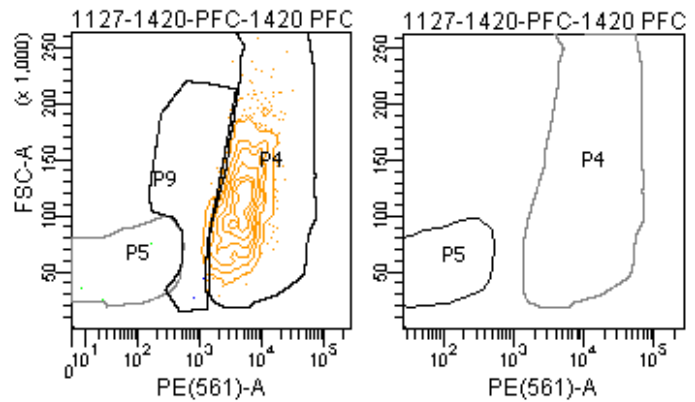


FACSDiva Version 6.1.3



Tube: 1420 PFC NEURON BACK

Population	#Events	%Parent	%Total
All Events	1,156	###	100.0
P1	1,154	99.8	99.8
P2	1,081	93.7	93.5
P3	1,056	97.7	91.3
P4	1,019	96.5	88.1
P5	3	0.3	0.3
P6	3	0.3	0.3
P7	1,051	99.5	90.9
P8	0	0.0	0.0
P9	21	2.0	1.8

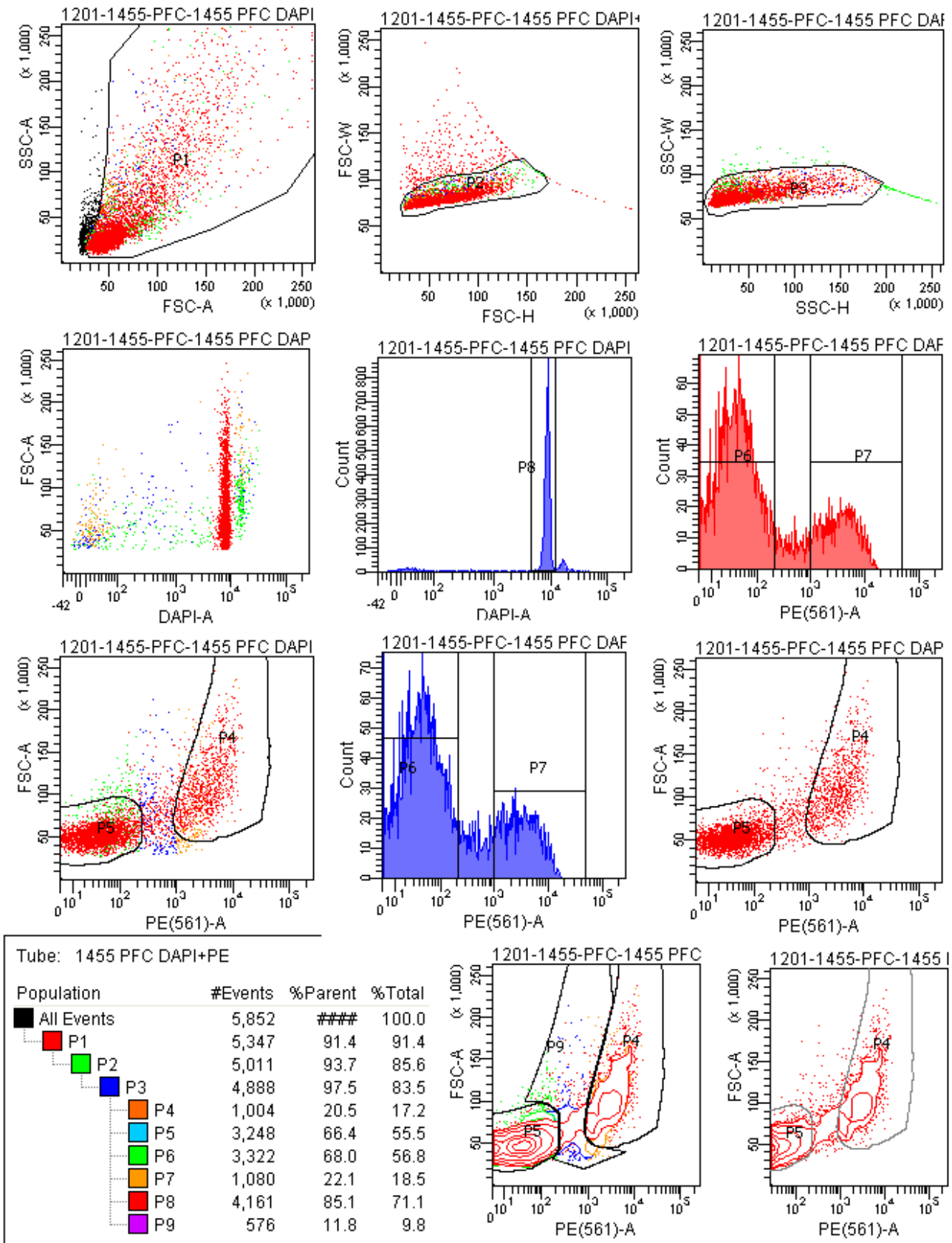


The BD Arial II FACS sorting reports of UMB#1455

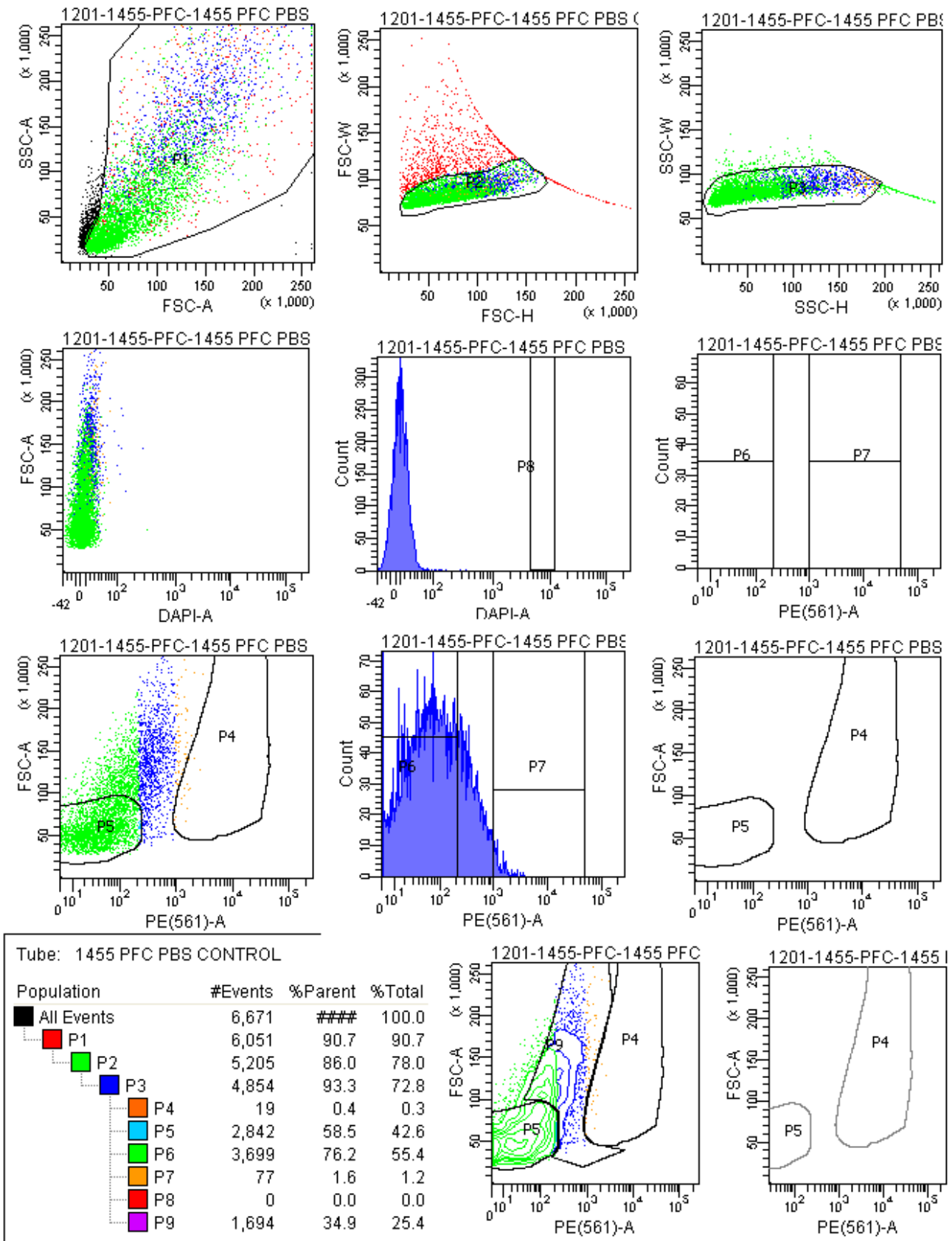
Sample: prefrontal cortex

Category: healthy control

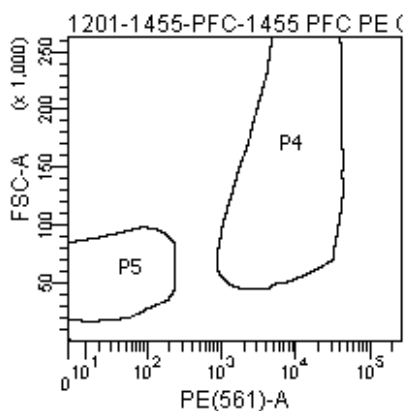
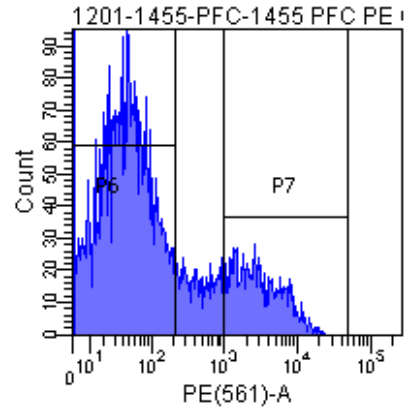
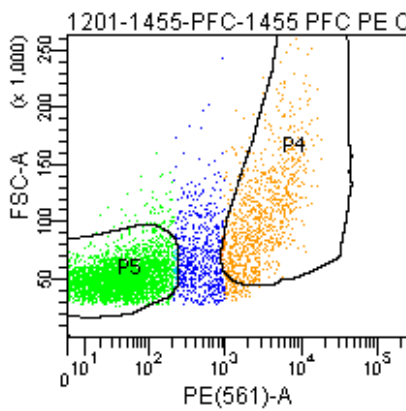
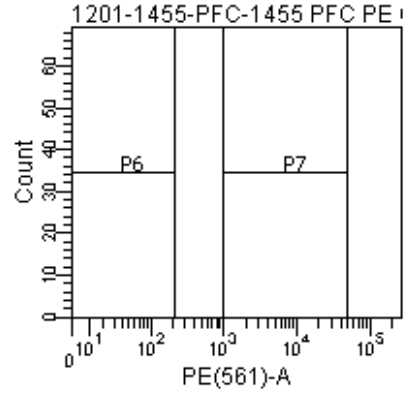
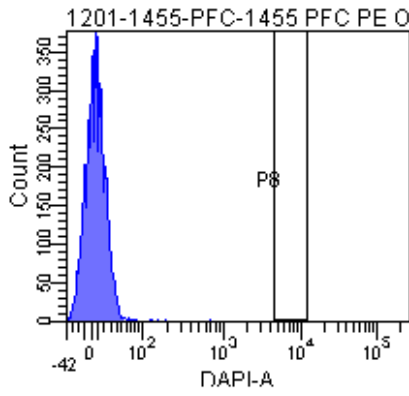
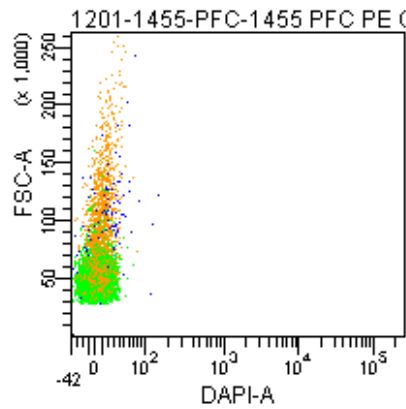
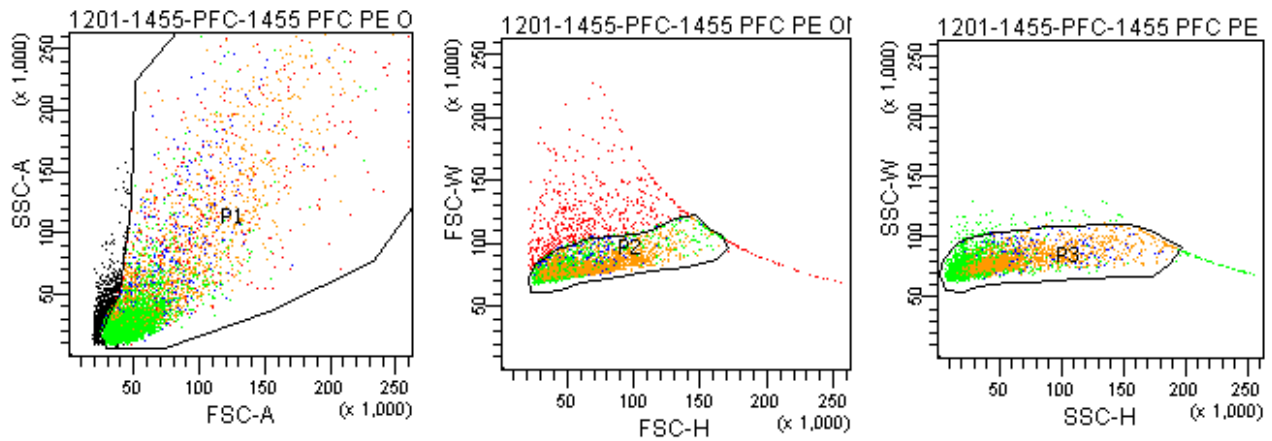
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FACSDiva Version 6.1.3

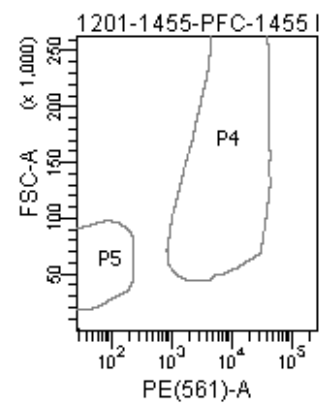
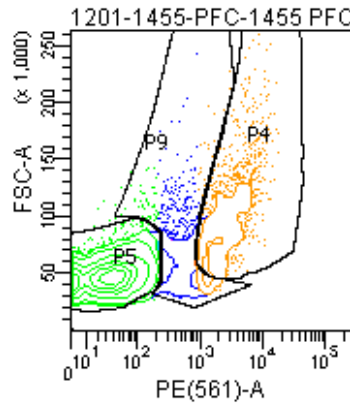


FACSDiva Version 6.1.3

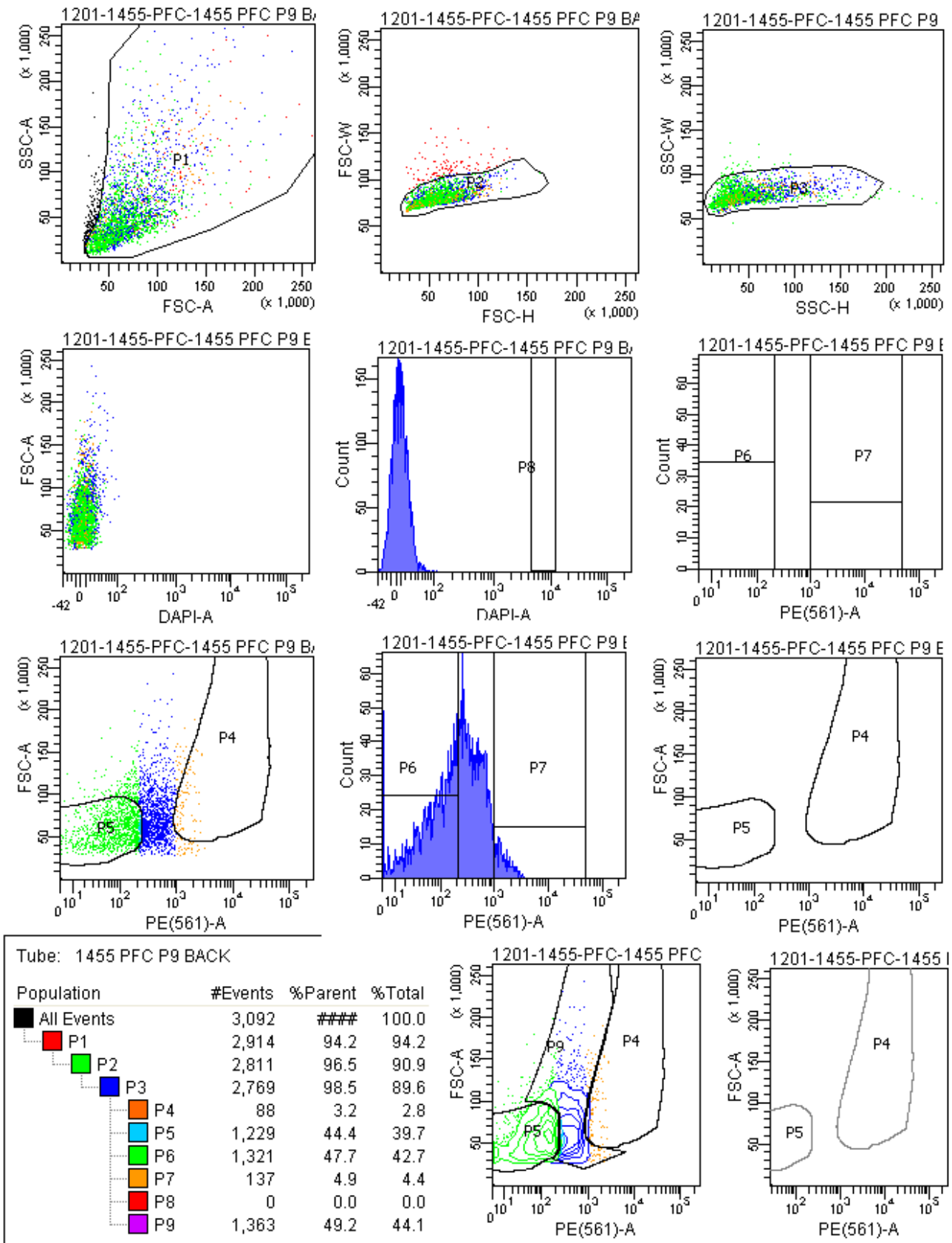


Tube: 1455 PFC PE ONLY CONTROL

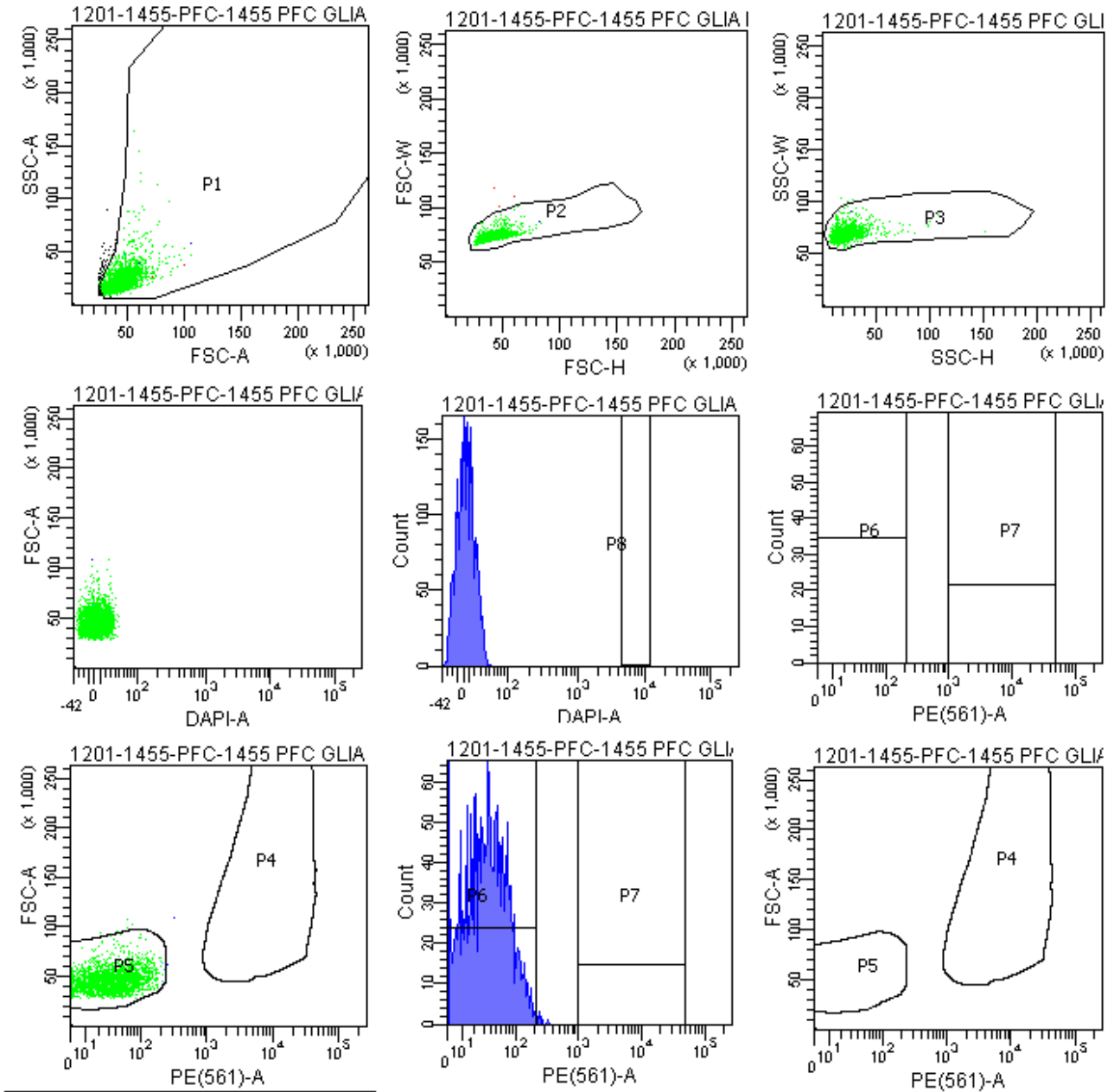
Population	#Events	%Parent	%Total
All Events	7,367	###	100.0
P1	6,513	88.4	88.4
P2	5,945	91.3	80.7
P3	5,765	97.0	78.3
P4	886	15.4	12.0
P5	4,101	71.1	55.7
P6	4,152	72.0	56.4
P7	980	17.0	13.3
P8	0	0.0	0.0
P9	718	12.5	9.7



FACSDiva Version 6.1.3

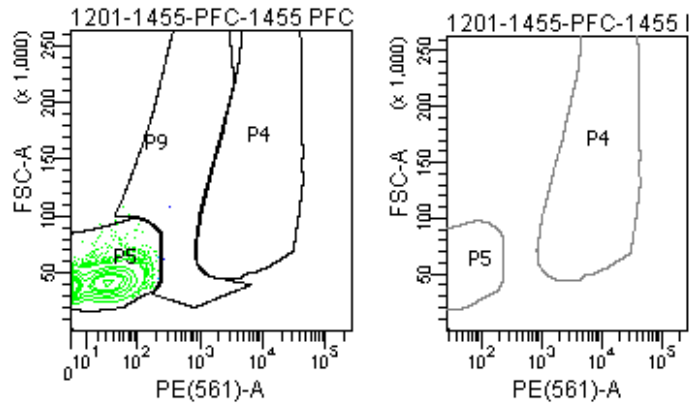


FACSDiva Version 6.1.3

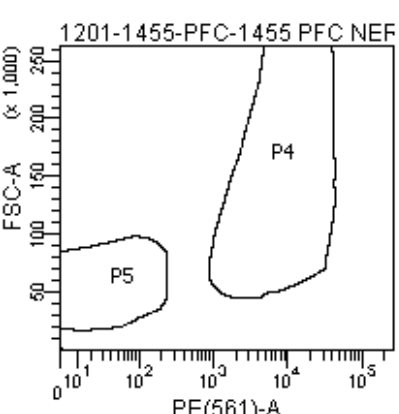
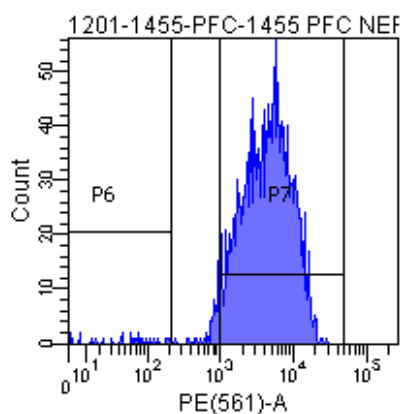
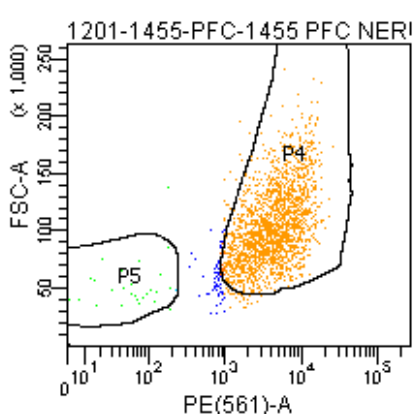
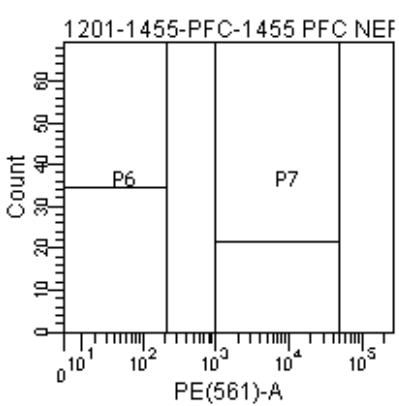
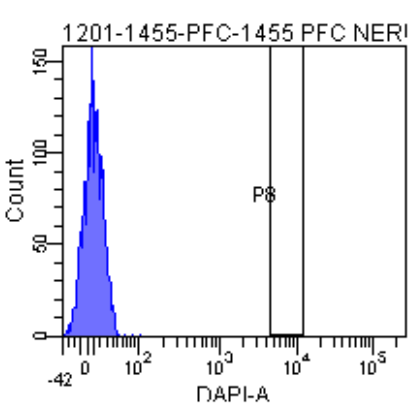
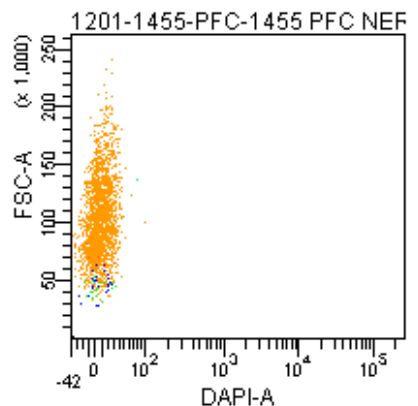
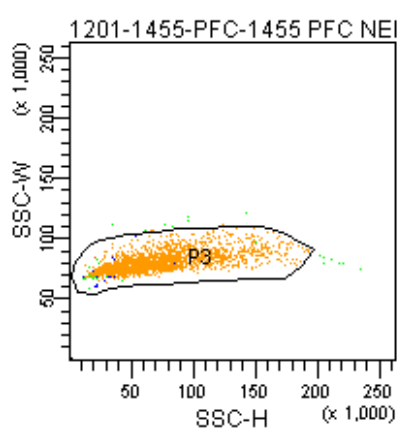
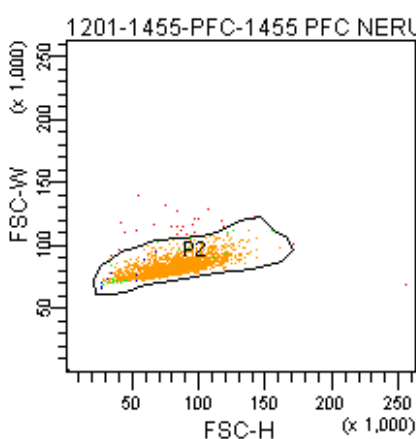
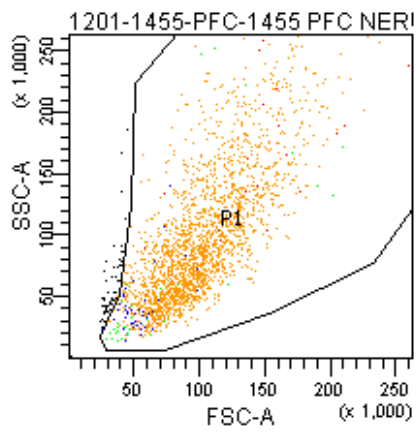


Tube: 1455 PFC GLIA BACK

Population	#Events	%Parent	%Total
All Events	2,833	###	100.0
P1	2,742	96.8	96.8
P2	2,739	99.9	96.7
P3	2,733	99.8	96.5
P4	0	0.0	0.0
P5	2,724	99.7	96.2
P6	2,725	99.7	96.2
P7	0	0.0	0.0
P8	0	0.0	0.0
P9	5	0.2	0.2



FACSDiva Version 6.1.3



Tube: 1455 PFC NERUON BACK

Population	#Events	%Parent	%Total
All Events	2,232	###	100.0
P1	2,176	97.5	97.5
P2	2,150	98.8	96.3
P3	2,135	99.3	95.7
P4	1,991	93.3	89.2
P5	28	1.3	1.3
P6	29	1.4	1.3
P7	2,035	95.3	91.2
P8	0	0.0	0.0
P9	101	4.7	4.5

