

Fig. 1B

	2 DPI				
WT	9.21858554	9.63729813	9.63940818	9.06294408	7.71600334
Rag1 ^{-/-}	9.79620285	10.2245072	10.1616375		
μMT	8.75266695	9.51744186	9.36686854	9.48679619	7.39682636

Fig. 1C

	2 DPI				
WT	4.64345268	5.14612804	5.17609126	6.14612804	6.07918125
Rag1 ^{-/-}	4.34242268	5.41497335	5.17609126		
μMT	6	6.04139269	6.2787536	5.77815125	5.95424251

4 [

7.5797836			9.37791604	9.30863899	9.35096752	9.62324929
			7.71038927	8.28851482	9.70217553	9.84766468
8.12179797	9.69037191	9.62895796	9.51195703	9.53881887	9.52574905	9.82318767

4 [

5.25527251			4.602059994	9.5424251	5.462398	5.23044892
			4.47712125	4.53147892		
6.25527251			5.07918125	4.77815125	5.14612804	5.462398

PI

9.73239376				6.59186147	7.61929558	8.58082793
				9.57165836	8.63691932	9.37244115
10.0562186	9.88935047	10.0562949	10.1045554	7.96232685	7.73876265	6.22431553

PI

				0	0	0
				4.14612804	3.67209786	5.43136376
4.84509804	5.07918125	4.90308999	5.14612804	2.47712125	2.47712125	2.30103

7DPI

7.71600334	7.5797836	7.64942471			5.50441812	6.16565261
10.2172207					9.40406325	9.78412395
5.34813958	5.72898517	6.38650718	8.49642344	8.5797836	6.90459621	6.92572932

7DPI

0					0	0
					3.84509804	3.69897
2.47712125	0	0	0	0	0	0

14DPI						P value
4.81981337	5.5727616					
9.91022936	9.89155971	9.51890334				<0.0001
7.21562198	6.7840079	6.7369961	7.21837754	6.6628862	7.02874807	0.0059

14DPI					
0	0	0	0	0	
4.698974	7.78151254	6.0205999			
0	0	0	0	0	0

Fig. 2B

PBS	6.79748612	6.12813	7.15848713	5.90585615	7.3382956
αCD8	7.64575138	7.68781899	7.42651411	7.25647403	7.62178703
αCD4	7.6853717	7.72115185	7.70922695	7.65023258	7.62865744
αCD8/4	8.56237905	8.61260946	7.7249468	8.08666331	8.4310701

Fig. 2C

PBS	0	0	0	0	0
αCD8	0	0	0	0	0
αCD4	0	0	0	0	0
αCD8/4	2.77815125	3.04139269	3.38021124	0	2.60205999

Fig. 2D

PBS	6.43693789	6.27478957	6.96697248	7.00695334	6.90459621
αCD8	9.00917989	8.80767598	9.09311918	9.19040564	7.73200745
αCD4	7.23363007	7.22677773	7.81597167	7.75029034	7.14961235
αCD8/4	9.66407105	9.66265273	9.27432895	9.40361954	9.01913374

Fig. 2E

PBS	0	0	0	0	0
αCD8	3.87506126	2.90308999	4.53147892	4.14612804	0
αCD4	2.47712125	0	3.17609126	2.30103	0
αCD8/4	5.04139269	4.90308999	4.83250891	4.74818803	3.72427587

			P value
7.09674454	5.3837647		
7.56018988			0.0044
7.42004874			0.0017
8.60876727	7.76080793	7.48225881	<0.0001

			P value
0	0		
0			>0.9999
0			>0.9999
0	3.11394335	0	0.0019

6.92572932	7.21562198	6.7840079	6.7369961	7.218377539	6.6628862	7.02874807
8.04378259						
7.15308961						
9.14807469						

0	0	0
0		
0		

	P value
PBS vs. α CD4	0.0342
PBS vs. α CD8	<0.0001
PBS vs. α CD4/8	<0.0001
α CD4 vs. α CD8	<0.0001
α CD4 vs. α CD4/8	<0.0001
α CD8 vs. α CD4/8	0.0127

	P value
PBS vs. α CD4	0.233
PBS vs. α CD8	0.0049
PBS vs. α CD4/8	<0.0001
α CD4 vs. α CD8	0.333
α CD4 vs. α CD4/8	0.0014
α CD8 vs. α CD4/8	0.0703

Fig. 3B

Control	9.18667859	9.27106308	9.32167804	9.03471639	9.04718746
T cell	9.21020122	9.01627029	8.69561603	8.8654751	8.16606238
Serum	7.70613215	7.65141853	7.66306872	7.73530742	6.13218874

Fig. 3C

Control	4.50514998	4.38021124	4.64345268	3.23044892	3.36172784
T cell	0	0	0	0	3.38021124
Serum	0	0	0	0	0

9.211126 9.08476323 9.38492276
9.11847793 8.64462062 7.8285908 8.02419569 8.03046409 8.52175946 8.89308865
6.04194576 7.03004066 7.20935917 8.48871941 8.42202473 8.05450375 8.19163373

3.65321251 4.66275783 4.61278386
2.69897 3.20411998 3.07918125 3.49136169 3.32221929 2.84509804 2.47712125
0 0 0 0 0 0 0

P value

9.27960705

0.1

<0.0001

P value

2.69897

2.90308999

0.0001

0

0 <0.0001

Fig. 4B

LN dilution	1ug			
4.31748811	2.3875	2.4092	2.4465	2.4007
5.99146455	2.3567	2.3604	2.4789	2.4884
7.09007684	2.4188	2.3729	2.3759	2.428
8.18868912	1.9285	1.7842	2.0464	2.2686
9.28730141	1.0442	1.3035	1.2134	1.9786
10.3859137	0.4689	0.4843	0.6243	0.986

Fig. 4C

	1ug				
0	100	100	100	100	100
1	100.420168	99.553571	101.904762	101.463415	98.598131
2	101.680672	101.785714	104.285714	103.414634	100
3	101.680672	100.446429	100.47619	102.926829	98.130841
4	102.521008	101.785714	103.333333	102.439024	98.598131
5	101.260504	104.464286	105.238095	101.95122	98.130841
6	100.8403	103.125	104.2857	102.439	86.9159
7	98.3193	102.2321	103.8095	103.4146	82.7103
8	100	102.232143	102.857143	100.487805	83.64486
9	98.739496	102.232143	100	100	84.11215
10	97.478992	102.232143	101.428571	99.512195	86.448598
11	97.058824	100.892857	101.428571	99.02439	87.383178
12	94.957983	100	100.47619	97.560976	88.317757
13	96.638655	102.232143	102.380952	101.463415	91.588785
14					
15	96.218487	103.571429	99.047619	99.02439	92.056075

Fig. 4D

	1ug	0.3ug	0.1ug	0.03
15	0			
15	0			
15	0			
15	0			
15	0			
15		0		
15		0		
15		0		
15		0		
15		0		
15			0	
7			1	
9			1	
7			1	
15			0	
6				1
8				1
7				1
7				1

8
7
8
6
8
7
7
6
7
6

1

Fig. 4E

				1ug		
S1 IgG AUC	11.45	11.55	12.02	13.33	10.81	
% Starting weight Day 6	100.8403	103.125	104.2857	102.439	86.9159	

Fig. 4F

S1 IgG AUC	7.053	4.581	9.565	7.61	0.1871	
------------	-------	-------	-------	------	--------	--

Fig. 4G

			1ug			
IC50	250.4	453.3	587.3	10	105.6	
% Starting weight Day 6	100.8403	103.125	102.439	86.9159	86.1607	

b

IC50	10	20.31	10	10	10	
------	----	-------	----	----	----	--

			0.3ug				
2.3969	2.3386	2.372	2.3926	2.3825	2.3949	2.3224	
2.4443	2.3932	2.2826	2.4486	2.3317	2.4393	2.2691	
2.2555	2.1843	2.1111	2.2245	1.9307	2.1682	1.7578	
1.669	1.528	1.461	1.7873	1.1024	1.5776	1.1026	
0.807	0.94	0.8642	1.1341	0.5559	1.0969	0.5758	
0.3887	0.3209	0.3074	0.3924	0.1654	0.4017	0.1935	

		0.3ug					
100	100	100	100	100	100	100	100
100.446429	100	101.401869	103.045685	100.485437	100.884956	101.010101	
101.339286	101.694915	102.803738	101.522843	101.941748	100	102.525253	
99.553571	100	99.53271	98.477157	100	98.230088	99.494949	
93.75	100	102.336449	101.015228	100	100	95.959596	
91.071429	100.423729	103.738318	102.030457	100.970874	94.247788	91.919192	
86.1607	101.6949	102.8037	101.0152	101.9417	89.823	85.3535	
79.0179	101.2712	103.271	101.5228	101.9417	82.7434	78.2828	
80.803571	98.728814	101.869159	101.522843	103.398058	85.840708		
87.946429	98.728814	103.271028	102.030457	100.485437	88.938053		
88.392857	100.423729	100	102.030457	100.970874	94.690265		
87.5	99.576271	100.46729	99.492386	100.485437	96.017699		
88.839286	100.847458	99.065421	100.507614	100	95.575221		
89.732143	101.271186	99.53271	103.045685	103.398058	95.575221		
91.517857	102.542373	100	104.060914	100	94.247788		

0.01ug Mock

	P value (Log Rank)
Mock vs 1ug	0.0031
Mock vs 0.3ug	0.0031
Mock vs 0.1ug	0.029
Mock vs 0.03ug	0.1729
Mock vs 0.01ug	0.1726
1ug vs 0.3ug	>0.9999
1ug vs 0.1ug	0.0486
0.3ug vs 0.1ug	0.0486

1
1
1
1

1
1
1
1
1

		0.3ug				
10.56	10.19	11.27	9.26	10.93	8.971	7.053
86.1607	101.6949	102.8037	101.0152	101.9417	89.823	85.3535

	Death					
2.832	4.211	1.133	4.304	0.08112	0.1134	0.06268

0.3ug				0.1ug		
142.9	108.5	10	10	20.31	10	10
101.6949	102.8037	101.9417	89.823	85.3535	81.8627	77.13

Death						
10	10	10	10	10	10	10

	0.1ug				0.03ug		
2.3694	2.129	2.5564	2.4855	0.1147	1.6384	2.1112	
1.962	1.1808	2.209	1.9228	0.0377	0.6755	0.9632	
1.2627	0.6675	1.9921	1.5063	0.0161	0.3084	0.6412	
0.5887	0.2647	1.3354	0.7407	0.0098	0.1149	0.2697	
0.2311	0.1147	0.5471	0.3252	0.0052	0.0477	0.0811	
0.1125	0.0225	0.1932	0.0693	0.0085	0.013	0.0352	

0.1ug			0.03ug			
100	100	100	100	100	100	100
101.960784	97.757848	103.167421	100.884956	100.917431	101.421801	97.272727
100.490196	102.242152	101.809955	102.654867	99.082569	101.421801	99.090909
99.509804	95.964126	99.095023	99.115044	90.366972	99.526066	95.454545
98.529412	89.686099	97.285068	92.035398	88.990826	94.312796	85.454545
89.215686	84.753363	87.782805	84.070796	88.990826	85.308057	79.545455
81.8627	77.13	82.3529	77.4336	79.8165	81.0427	75.4545
78.9216	73.991	82.8054		75.6881	76.7773	73.6364
75.980392		84.615385		71.100917		
74.019608		88.687783				
		91.855204				
		97.737557				
		95.927602				
		98.190045				
		97.737557				

0.1ug					0.03ug	
4.581	9.565	7.61	0.1871	2.832	4.211	1.133
81.8627	77.13	82.3529	77.4336	79.8165	81.0427	75.4545

0.1048	11.45	11.55	12.02	13.33	10.81	10.56
--------	-------	-------	-------	-------	-------	-------

			0.03ug			
10	10	10	10	10	10	10
82.3529	77.4336	79.8165	81.0427	75.4545	82.1429	77.2512

				Survival		
250.4	453.3	587.3	10	105.6	142.9	108.5

0.01ug						
0.8192	2.0477	0.0389	0.0356	0.0599	0.0279	0.0692
0.2096	1.1452	0.1638	0.0144	0.0204	0.0105	0.0176
0.085	0.5873	0.0229	0.0097	0.012	0.0069	0.0072
0.0366	0.246	0.0123	0.0081	0.0088	0.0054	0.0051
0.0164	0.0671	0.0114	0.0074	0.007	0.0056	0.0053
0.0099	0.0234	0.0092	0.0067	0.0081	0.0093	0.0057

0.01ug					
100	100	100	100	100	100
101.785714	99.526066	100.440529	101.507538	99.528302	96.341463
100	103.791469	100.440529	102.512563	103.301887	95.934959
97.767857	100	98.678414	98.994975	98.113208	93.089431
91.964286	93.838863	96.475771	91.457286	93.867925	86.99187
82.589286	82.938389	89.867841	82.914573	86.792453	80.894309
82.1429	77.2512	82.3789	77.3869	79.717	76.4228
79.9107	75.3555	80.1762		75.4717	74.7967
78.125		78.854626		71.698113	73.170732

			0.01ug			
4.304	0.08112	0.1134	0.06268	0.1048	0.2626	0.08488
82.1429	77.2512	82.3789	77.3869	79.717	76.4228	81.0811

Survival					
10.19	11.27	9.26	10.93	8.971	7.61

0.01ug			Spearman r		P value
10	10		r	0.7171	P (two-tailed)
82.3789	77.3869		95% confider	0.4021 to 0.8804	

			Best-fit values	
10	10	10	X at 50%	31.13

Mock				
0.2213	0.0393	0.0735	0.1431	0.0691
0.0315	0.0142	0.0158	0.027	0.0216
0.0135	0.0113	0.0119	0.0152	0.0128
0.0067	0.0076	0.0097	0.0082	0.0069
0.0073	0.0067	0.0074	0.0065	0.0058
0.0063	0.0076	0.007	0.0081	0.0072

Mock			
100	100	100	100
99.099099	99.568966	96.428571	98.283262
99.54955	100	97.619048	98.283262
100	96.551724	94.84127	95.27897
96.846847	89.224138	90.079365	88.412017
87.837838	80.172414	81.746032	77.682403
81.0811	78.8793	80.9524	76.3949
78.8288		79.3651	
		77.777778	

Mock

0.1191 0.1945 0.1197
78.8793 80.9524 76.3949

Spearman r

r 0.7936
95% confidence interval 0.5950 to 0.9009

Best-fit values

X at 50% 7.882

0.0003

P value

P (two-tailed) <0.0001

2 way ANOVA with Tukey's multiple comparisons test

DPI		P value
1	1ug vs. 0.3ug	0.9497
	1ug vs. 0.1ug	0.9932
	1ug vs. 0.03ug	>0.9999
	1ug vs. 0.01ug	>0.9999
	1ug vs. Mock	0.1766
	0.3ug vs. 0.1ug	>0.9999
	0.3ug vs. 0.03ug	0.9843
	0.3ug vs. 0.01ug	0.8473
	0.3ug vs. Mock	0.0539
	0.1ug vs. 0.03ug	0.9978
	0.1ug vs. 0.01ug	0.9756
	0.1ug vs. Mock	0.1868
	0.03ug vs. 0.01ug	0.9999
	0.03ug vs. Mock	0.2675
	0.01ug vs. Mock	0.1677
2	1ug vs. 0.3ug	0.9952
	1ug vs. 0.1ug	0.9303
	1ug vs. 0.03ug	0.5413
	1ug vs. 0.01ug	0.9997
	1ug vs. Mock	0.0409
	0.3ug vs. 0.1ug	0.9573
	0.3ug vs. 0.03ug	0.4897
	0.3ug vs. 0.01ug	0.9447
	0.3ug vs. Mock	0.0357
	0.1ug vs. 0.03ug	0.8573
	0.1ug vs. 0.01ug	0.8078
	0.1ug vs. Mock	0.0644
	0.03ug vs. 0.01ug	0.414
	0.03ug vs. Mock	0.347
	0.01ug vs. Mock	0.0364
3	1ug vs. 0.3ug	0.7054
	1ug vs. 0.1ug	0.3359
	1ug vs. 0.03ug	0.3199
	1ug vs. 0.01ug	0.4323
	1ug vs. Mock	0.078
	0.3ug vs. 0.1ug	0.6984

0.3ug vs. 0.03ug	0.5427
0.3ug vs. 0.01ug	0.836
0.3ug vs. Mock	0.181
0.1ug vs. 0.03ug	0.8579
0.1ug vs. 0.01ug	0.9842
0.1ug vs. Mock	0.4839
0.03ug vs. 0.01ug	0.7055
0.03ug vs. Mock	0.9998
0.01ug vs. Mock	0.2904

4

1ug vs. 0.3ug	0.7446
1ug vs. 0.1ug	0.1957
1ug vs. 0.03ug	0.0047
1ug vs. 0.01ug	0.0069
1ug vs. Mock	0.0082
0.3ug vs. 0.1ug	0.753
0.3ug vs. 0.03ug	0.0257
0.3ug vs. 0.01ug	0.1261
0.3ug vs. Mock	0.0317
0.1ug vs. 0.03ug	0.2474
0.1ug vs. 0.01ug	0.8417
0.1ug vs. Mock	0.253
0.03ug vs. 0.01ug	0.5097
0.03ug vs. Mock	>0.9999
0.01ug vs. Mock	0.5218

5

1ug vs. 0.3ug	0.9016
1ug vs. 0.1ug	0.0033
1ug vs. 0.03ug	0.0002
1ug vs. 0.01ug	0.0018
1ug vs. Mock	0.0002
0.3ug vs. 0.1ug	0.0557
0.3ug vs. 0.03ug	0.0054
0.3ug vs. 0.01ug	0.0125
0.3ug vs. Mock	0.0023
0.1ug vs. 0.03ug	0.2522
0.1ug vs. 0.01ug	0.5799
0.1ug vs. Mock	0.0734
0.03ug vs. 0.01ug	0.9802
0.03ug vs. Mock	0.8836

0.01ug vs. Mock 0.5894

6

1ug vs. 0.3ug	>0.9999
1ug vs. 0.1ug	0.0301
1ug vs. 0.03ug	0.012
1ug vs. 0.01ug	0.0123
1ug vs. Mock	0.0121
0.3ug vs. 0.1ug	0.0361
0.3ug vs. 0.03ug	0.0133
0.3ug vs. 0.01ug	0.0137
0.3ug vs. Mock	0.0133
0.1ug vs. 0.03ug	0.5714
0.1ug vs. 0.01ug	0.572
0.1ug vs. Mock	0.4572
0.03ug vs. 0.01ug	>0.9999
0.03ug vs. Mock	0.9997
0.01ug vs. Mock	0.9997

Fig. 5B

S1 IgG AUC	17.38	18.13	16.37	Vaccin 17.45
------------	-------	-------	-------	-----------------

Fig. 5C

	WA1	3.999218	4.101884	3.819676
Vaccine	B.1.351	3.953034	3.640183	3.49596
	WA1	3.499412	3.678882	3.269513
Convalescent	B.1.351	3.349278	2.399501	3.083861

Fig. 5D

	WA1+PBS			Naïve WA1+
0	1	1	1	1
1				
2	1.01470588	1.010582	1.027149	1.018957
3				
4	0.84803922	0.835979	0.904977	0.905213
5				
6				
7				

Fig. 5E

	WA1+PBS	Naïve WA1+aCD	B.1.351+P	B.1.351+a
4		1	1	1
4		1	1	1
4		1		1
7				
7				
7				
7				
7				
7				

Fig. 5F

	WA1+PBS		Naïve	
9.08989319	8.56884721	9.280519	9.216226	9.356341

		P value
Naïve	WA1+PBS vs B.1.351+PBS	0.9979
Convalescent	WA1+PBS vs WA1+aCD8	0.9849
Convalescent	WA1+PBS vs B.1.351+PBS	0.1663
Convalescent	WA1+aCD8 vs B.1.351+aCD8	<0.0001
Convalescent	B.1.351+PBS vs B.1.351+aCD8	0.0829
Vaccine	WA1+PBS vs WA1+aCD8	0.9985
Vaccine	WA1+PBS vs B.1.351+PBS	<0.0001
Vaccine	WA1+aCD8 vs B.1.351+aCD8	<0.0001
Vaccine	B.1.351+PBS vs B.1.351+aCD8	0.9979

Fig. 5G

	WA1+PBS	Naïve
	7.146128036	6.602059991 7.361728 6.963788 7.380211

e
 14.19 17.54 17.96 16.05 17.9 12.88 14.2

4.237921	4.129561	3.964966		Vaccine wa1 vs. Convalescent W
3.113275	3.561578	3.671358		Vaccine wa1 vs. Vaccine B.1.351
3.885361	3.230449	2.967875		Convalescent WA1 vs. Convalesc
3.078457	3.089552	3.17667		Vaccine B.1.351 vs. Convalescer

aCD8		B.1.351+PBS		B.1.351+aCD8			
	1	1	1	1	1	1	1
	1.019512	0.97807	0.995595	0.967742	0.977876	0.989744	0.979339
	0.878049	0.811404	0.788546	0.842742	0.880531		
						0.964103	0.88843

	Vaccine			Convalescent			
	WA1+PBS	WA1+aCD8	B.1.351+P	B.1.351+a	WA1+PBS	WA1+aCD8	B.1.351+P
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
				0		0	0

	B.1.351+PBS					
9.561222	9.249889	9.486547	9.332676	9.241072	5.250197	4.954654

B.1.351+PBS

6.414973 7.361728 7.662758 7.556303 7.39794 0 0

		Convalescent					
	12.91	12.77	11.83	13.83	13.62	12.05	12.38

	P value
WA1	0.004
Control	0.0006
Percent B.1.351	0.0006
Percent B.1.351	0.004

WA1+PBS				WA1+aCD8		
1	1	1	1	1	1	1
0.99537037	1.024155	1.018957	0.977376	1.014493	0.961722	0.982222

0.97685185	1.024155	1.014218	1.022624	1.024155	0.995215	0.977778
------------	----------	----------	----------	----------	----------	----------

B.1.351+aCD8

0
0
0
0
0
0

WA1+PBS				WA1+aCD8		
4.64275579	5.086929	5.043085	5.160081	3.982399	4.564423	5.140078

WA1+PBS
0

0

0

0

WA1+aCD8
0

0

0

P valuse
<0.0001

Vaccine		B.1.351+PBS				
1	1	1	1	1	1	1
0.991111	1	0.99095	1.027523	1.02834	1.045872	1.005076
0.995556	0.990385	0.972851	1.036697	0.995951	1.050459	0.969543

Convalescent		B.1.351+PBS				
4.339932	7.296661	5.360184	6.016225	5.53907	5.469254	6.911048

Convalescent

0

0

B.1.351+PBS

0

0

0

0

0

B.1.351+aCD8

1	1	1	1	1	1	1
1.009709	1	0.990521	1.011299	0.985437	0.984709	1.006873
					0.941896	1.010309
1.009709	1.028302	1.023697	1.011299	0.980583	0.926606	1.017182

B.1.351+aCD8

WT+PBS

7.95591	7.249318	5.902623	6.903139	4.731849	4.863409	5.129359
---------	----------	----------	----------	----------	----------	----------

B.1.351+aCD8

0

0

0

0

0

WT+PBS

0

0

WA1+PBS					WA1+aCD8	
1	1	1	1	1	1	1
1.007519	1	0.956835	0.993884	0.986014	0.960784	1.003509
0.969925	1.003636	1	0.963303	1.027972	0.980392	1.017544
1.003759	0.996364	1.07554	0.972477	1.034965	0.986928	1.059649

WT+aCD8					Vaci	
4.751935	6.13055	5.896455	4.573906	4.701049	4.548841	4.582514

0 0 0 0 WT+aCD8 0 0 0 Vac

Convalescent

B.1.351+PBS

1 1 1 1 1 1 1

0.9967 0.985251 1.002809 0.997333 0.992754 1 0.973244

0.990099 0.979351 1.005618 0.994667 0.98913 0.982456 0.979933

0.986799 0.979351 1.008427 1.005333 1.01087 1.003509 1.026756

cine

SA+PBS

6.590794 6.708452 6.266094 7.87935 7.434901 6.40057 6.598809

cine

0

0

SA+PBS

0

0

0

0

0

B.1.351+aCD8

1	1	1	1	1	1	1	1
1.384921	0.980831	1.03321	1	0.992647	0.996644	1.007117	
1.392857	0.990415	1.00369	1.007547	1.003676	0.983221	1.007117	
1.416667	0.977636	1.00738	1.041509	1.051471	1	1.024911	

SA+aCD8

6.924985 6.938889 6.654594

SA+aCD8

0

0

0

Fig S1A

			aCD8			
	5.2983174	3.4	3.3664	3.3495	3.3553	2.794
	6.3969297	3.4245	3.3815	3.4276	3.4399	1.8158
	7.4955419	3.357	3.1794	3.3272	3.3945	0.6876
	8.5941542	3.251	2.3695	3.0003	3.0964	0.2443
	9.6927665	2.5775	1.1633	1.9621	2.6642	0.096
LN dilution	10.791379	1.385	0.5001	0.871	1.0377	0.0416

Fig S1B

			aCD8			
S1 IgG AUC	16.48	13.21	15.19	16.25	4.682	

Fig S1C

			aCD8			
	5.2983174	3.3843	3.3796	3.5064	3.5186	3.3374
	6.3969297	3.5333	3.4407	3.5251	3.5151	3.0498
	7.4955419	3.3776	3.4613	3.4781	3.522	1.6402
	8.5941542	3.3425	3.1348	3.306	3.4052	0.6806
	9.6927665	2.995	1.7512	2.4319	2.7144	0.2491
LN dilution	10.791379	1.6608	0.7889	1.1326	1.3474	0.0864

Fig S1D

			aCD8			
RBD IgG AUC	17.33	15.24	16.55	17.13	8.055	

aCD4				aCD4/aCD8		
3.0794	2.4109	2.9741	1.3015	0.5918	0.047	0.1184
2.6488	1.1983	1.9902	0.5191	0.2349	0.0232	0.0618
1.1835	0.4589	0.5309	0.1945	0.0892	0.0151	0.0274
0.4414	0.2506	0.3212	0.0771	0.0382	0.0127	0.0168
0.1688	0.0937	0.119	0.035	0.0206	0.012	0.0138
0.0677	0.0474	0.0441	0.019	0.0156	0.0117	0.0112

aCD4				aCD4/aCD8		
6.609	3.549	4.911	1.632	0.7543	0.1015	0.2028

aCD4				aCD4/aCD8		
3.369	3.2737	3.3793	2.2753	0.1295	0.2702	1.2344
3.4369	2.4983	2.199	0.955	0.0536	0.0817	0.5996
2.7796	0.7357	1.0525	0.3795	0.0269	0.0313	0.2198
1.4602	0.2845	0.3436	0.1353	0.0173	0.0199	0.1029
0.4002	0.1742	0.1024	0.0536	0.0125	0.0149	0.0513
0.1345	0.0271	0.0426	0.046	0.0279	0.0131	0.017

aCD4				aCD4/aCD8		
10.8	5.87	5.942	2.949	0.2076	0.318	1.757

	PBS	
3.3294	3.404	3.402
3.4305	3.2786	3.2933
3.4057	2.9999	3.2401
2.9919	1.7404	3.1521
1.8736	0.7623	1.8814
0.8461	0.3145	1.2522

15.15	PBS	11.69	15.26		P Value
				PBS vs. α CD8	0.6516
				PBS vs. α CD4	<0.0001
				PBS vs. α CD8/4	<0.0001

	PBS	
3.4369	3.4252	3.4997
3.4614	3.4286	3.4484
3.5723	3.3393	3.4125
3.4076	2.7383	3.2917
2.2737	0.9657	2.6998
0.2941	0.1805	1.0231

16.02	PBS	13.49	16.6		P Value
				PBS vs. α CD8	0.7766
				PBS vs. α CD4	0.0003
				PBS vs. α CD8/4	<0.0001

Fig S2A

	Infection			Vaccine		
IV ⁻	1.89	5.76	2.64	0.4	0.44	0.33
IV ⁺	0.48	1.02	0.58	1.66	0.94	1.08

Fig S2C

	Infection			Vaccine		
IV ⁻	57.8	50.1	56.3	3.39	4.89	5.91
IV ⁺	4.47	3.53	4.82	6.25	10.9	17.3

Fig S2E

	3.377	2.244	3.896	2.432	2.784	2.529
--	-------	-------	-------	-------	-------	-------

P value
0.0153
0.7999

P value
<0.0001
0.0714

2.923 2.389 0.8971 Infection 2.276 2.643 1.787 2.377

1.398

1.601

3.691

4.134

2.911

1.794

4.724

4.054

3.274

3.333

3.219

3.665

	Vaccine					
2.924	3.53	1.938	2.791	3.559	2.996	3.636

1.674

2.923

2.611

3.246

2.889

4.217

P value

0.0352

Individual values on figure

Fig S4A

	WA1+PBS		Naïve (4 DPI)		WA1+aCD8		B.1.35	
	7.87E+09	9.13E+09	8.81E+09	7.87E+09	7.87E+09	8.01E+09		

Fig S4B

	WA1+PBS					
	3.211012	3.211012	3.211012	3.211012	3.211012	3.211012

Fig S4C

	WA1+PBS					
	4.223789	4.61719	4.4357	4.469032	4.290527	4.340033

S
4.210116 3.211012 4.760936 4.189638 3.688877 4.713337 3.96642

B.1.351+aCD8

B.1.351+PBS
5.055932 5.068755 5.171346 5.051298 5.223724 5.621694 5.045423

B.1.351

				P value
			WA1+PBS vs WA1+aCD8	0.9944
6.092556			WA1+PBS vs B.1.351+PBS	0.1294
			WA1+aCD8 vs B.1.351+aCD8	0.014
			B.1.351+PBS vs B.1.351+aCD8	0.5774

+aCD8					P value
5.366065	5.407795	5.050766	WA1+PBS vs WA1+aCD8		0.8814
			WA1+PBS vs B.1.351+PBS		0.0003
			WA1+aCD8 vs B.1.351+aCD8		<0.0001
			B.1.351+PBS vs B.1.351+aCD8		0.4689