

Supplementary Table 1: LEGEND-Screen™ Mouse PE Kit

Antibody	Antibody	Antibody	Antibody	Antibody	Antibody	Antibody
CD1d	CD49a	CD117	CD200R	Allergin-1	Ly49H	TCR V γ 2
CD2	CD49b(DX5)	CD120a	CD200R3	B7-H4	Ly-51	TCR V γ 3
CD3	CD49b(HMa2)	CD120b	CD201	CLEC12A	Ly-6A/E	TCR V δ 4
CD4	CD49d	CD121a	CD202b	CLEC9A	Ly-6C	TCR β chain
CD5	CD49e	CD122	CD205	CMKLR1	Ly-6D	TER-119
CD6	CD49f	CD123	CD206	CXCR7	Ly-6G	TIGIT
CD8a	CD51	CD124	CD207	33D1	Ly-6G/Ly-6C	Tim-1
CD9	CD54	CD126	CD210	DeTRAIL-R1	Mac-2	Tim-2
CD11a	CD55	CD127	CD223	DeTRAIL-R2	MAIR-IV	Tim-3
CD11b	CD59a	CD132	CD226	Dectin-1	MD-1	Tim-4
CD11c	CD61	CD133	CD229	Delta-like 1	NK-1.1	TLT-2
CD14	CD62L	CD134	CD252	Delta-like 4	Notch 1	Trem-like 4
CD16/32	CD63	CD135	CD253	DR3	Notch 2	IgG Isotype Ctrl
CD18	CD64	CD137	CD254	ESAM	Notch 3	IgG Isotype Ctrl
CD19	CD66a	4-1BB Ligand	CD255	F4/80	Notch 4	IgG1, κ Isotype Ctrl
CD21/CD35	CD68	CD138	CD256	Fc ϵ R1 α	PD-1H	IgG2a, κ Isotype Ctrl
CD22	CD69	CD140a	CD262	FR4	PDC-TREM	IgG2b, κ Isotype Ctrl
CD23	CD70	CD140b	CD265	Galectin-9	PIR-A/B	IgM, κ Isotype Ctrl
CD24	CD71	CD144	CD266	GARP	Podoplanin	IgG1, κ Isotype Ctrl
CD25	CD73	CD146	CD267	GITR Ligand	RAE-1 γ	IgG2a, κ Isotype Ctrl
CD26	CD79a	CD147	CD268	H-2	RAE-1 δ	IgG2b, κ Isotype Ctrl
CD27	CD79b	CD150	HVEM	I-A/I-E	Siglec H	IgG2c,k Isotype Ctrl
CD28	CD80	CD152	CD272	IFNAR-1	SSEA-1	IgM, κ Isotype Ctrl
CD29	CD81	CD153	CD273	IFN- γ R b chain	SSEA-3	
CD30	CD83	CD154	CD274	IgD	TCR γ/δ	
CD31	CD84	CD155	CD275	IgE	TCR V α 11	
CD34	CD86	CD157	CD276	IgM	TCR V α 2	
CD36	CD88	CD160	CD278	IL-21R	TCR V α 3.2	
CD38	CD90.1	CD169	CD279	Integrin β 7	TCR V α 8.3	
CD39	CD90.2	CD178	CD283	Jagged 2	TCR V β 11	
CD40	CD93	CD179a	CD284/MD2	JAML	TCR V β 12	
CD41	CD94	CD180	MAIR-V	KLRG1	TCR V β 13	
CD43	CD96	CD183	CD309	LAP	TCR V β 2	
CD43	CD98	CD193	NKG2D	LPAM-1	TCR V β 5.1, 5.2	
CD44	CD103	CD194	CD317	LT beta R	TCR V β 6	
CD45R/B220	CD105	CD195	CD326	Ly108	TCR V beta 7	
CD45	CD106	CD196	CD335	Ly-49A	TCR V β 8	
CD45RB	CD107a	CD197	CD351	Ly-49C/F/I/H	TCR V β 9	
CD47	Mac-3	CD199	CD355	Ly49D	TCR V γ 1.1	
CD48	CD115	CD200	GITR	Ly49G	TCR V γ 1.1 + V γ 1.2	

Supplementary Table 2a: Cell Surface Antibody Reagents

Protein	Clone	Manufacturer	Metal Isotope	Conc. (µg/mL)	Catalog number
B220	RA3-6B2	BioLegend	Pr141	2	103202
CD11b	M1/70	BioLegend	Nd142	0.5	101202
CD11c	N418	BioLegend	Nd143	8	117302
CD194	2G12	BioLegend	Gd160	8	131202
CD195	HM-CCR5(7A4)	eBioscience	Gd155	8	14-1951-85
CD200R	OX2R	BioLegend	Yb172	8	123902
CD206	MR5D3	AbD Serotec	Er166	8	MCA2235
CD217 (IL-17RA)	PAJ-17R	eBioscience	Lu175	4	12-7182-82
CD274	B7-H1	BioLegend	Nd146	2	124302
CD3	145-2C11	BioLegend	In113	4	100302
CD38	90	BioLegend	Dy161	4	102702
CD39	Duha59	BioLegend	Er170	3	143802
CD4	RM4-5	BioLegend	Nd150	1	100506
CD45	30-F11	BioLegend	Yb176	1	103102
CD49d	9C10 (MFR4.B)	BioLegend	Sm147	4	103708
CD49e	5H10-27(MFR5)	BioLegend	Nd148	4	103801
CD80	16-101	BD Pharmingen	Er168	4	553766
CD86	GL-1	BioLegend	Tb159	4	105002
H-2	M1/42	BioLegend	Nd145	1	125502
Ly6C	HK1.4	Novus Biologicals	Eu151	1	NBP1-28046
Ly6G	1A8	BioLegend	ce140	2	127632
MHCII	M5/114.15.2	BioLegend	In115	2	107602
CD317 (PDCA-1)	120GB	Novous /imgenx	Eu153	4	DDX0390-067
TIM4	Kat5-18	Hycult Biotech	Dy163	8	11550M0512
MerTK	Polyclonal	R&D	Dy162	4	DGS0213111
AXL	Polyclonal	R&D	Er167	4	CTC0213041
TREM2	78.18	BioRad	Tm169	4	1113
4D4		gift*	Sm154	0.5	Gift
Fcrls		gift*	Sm152	2	Gift
GFP**	FM264G	BioLegend	La139	4	338002

*Gift from Dr. Butovsky

** : Used for detection of YFP in CNS tissues from Cx3cr1^{CreER} Rosa26-YFP

Supplementary Table 2b: Signaling Antibodies, Apoptotic and Proliferative Markers

Protein	Clone	Manufacturer	Metal Isotope	Conc. (µg/mL)	Catalog number
C/EBPα	D56F10	CST	Ho165	4	8178S
C/EBPβ	E299	Abcam	Dy164	4	ab32358
pCREB	87G3	CST	Yb174	1	9198BF
pSTAT1	58D6	CST	Gd155	4	9167BF
pSTAT3	4/P-STAT3	DVS	Gd158	1	3158005A
pSTAT5	47	BD Pharmingen	Nd144	1	624084
NF-κB (p65)	K10-895.12.50	BD Pharmingen	Yb171	4	558393
MAPKAPK2	27B7	CST	Yb173	1	3007BF
cPARP	F21-852	BD Pharmingen	La139	1	519000017
Ki-67	B56	BD Biosciences	Sm152	1	556003

Supplementary Table 2c: Cytokine Antibodies

Protein	Clone	Manufacturer	Metal Isotope	Conc. (µg/mL)	Catalog number
GM-CSF	MP1-22E9	BioLegend	Dy164	4	505402
IFN-a	F1	Hycult Biotech	Yb173	4	HM1001
IFN-g	XMG1.2	DVS	Ho165	4	3165003B
IL-10	JES5-16E3	DVS	Gd158	4	3158002B
IL-17A	TC11-18H10.1	DVS	Tm169	4	3169005B
IL-6	MP5-20F3	DVS	Er167	4	3167003B
TGF-beta	19D8	BioLegend	Yb171	4	521704
TNF-a	MP6-XT22	DVS	Dy162	2	3162002B