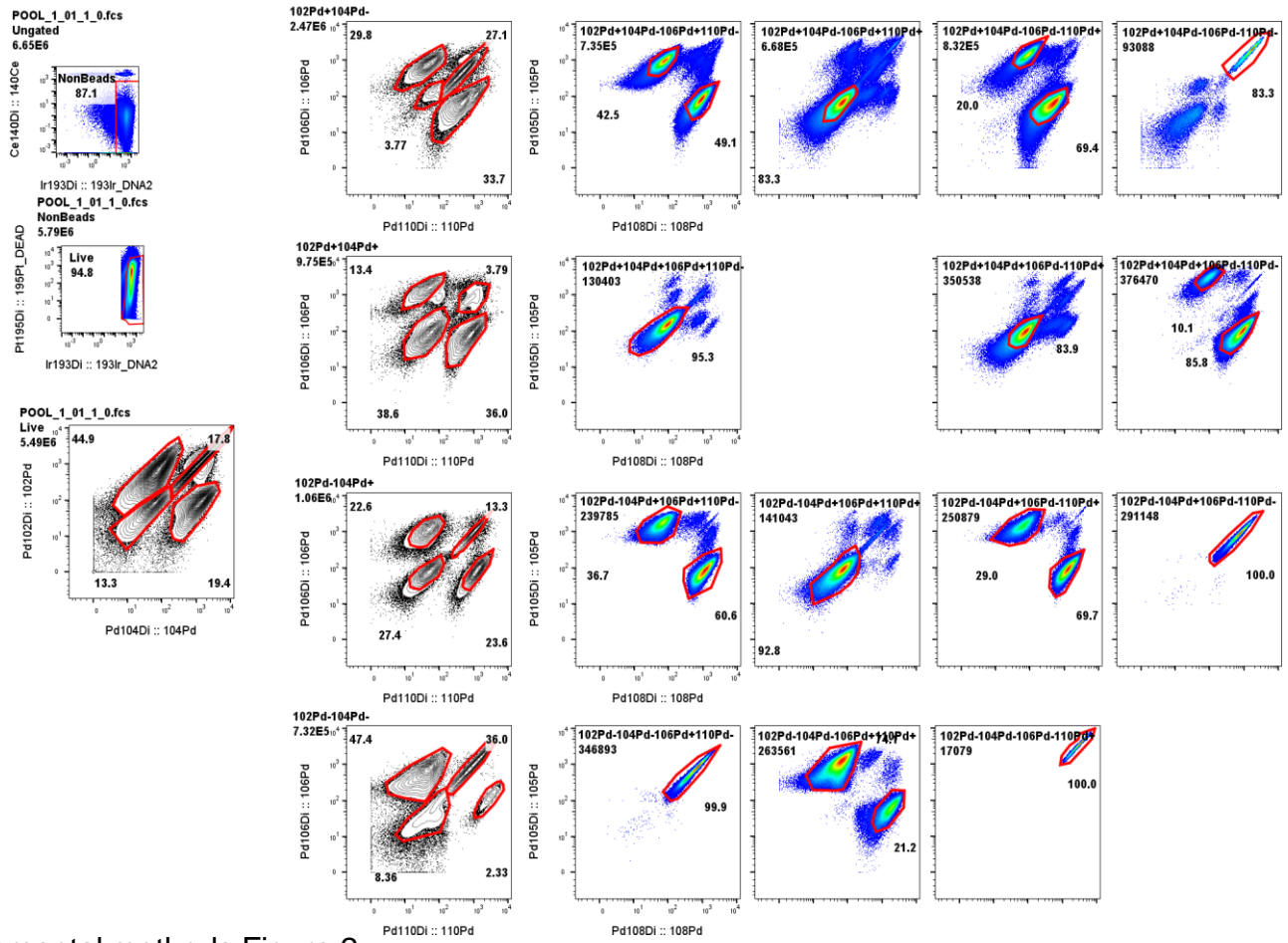
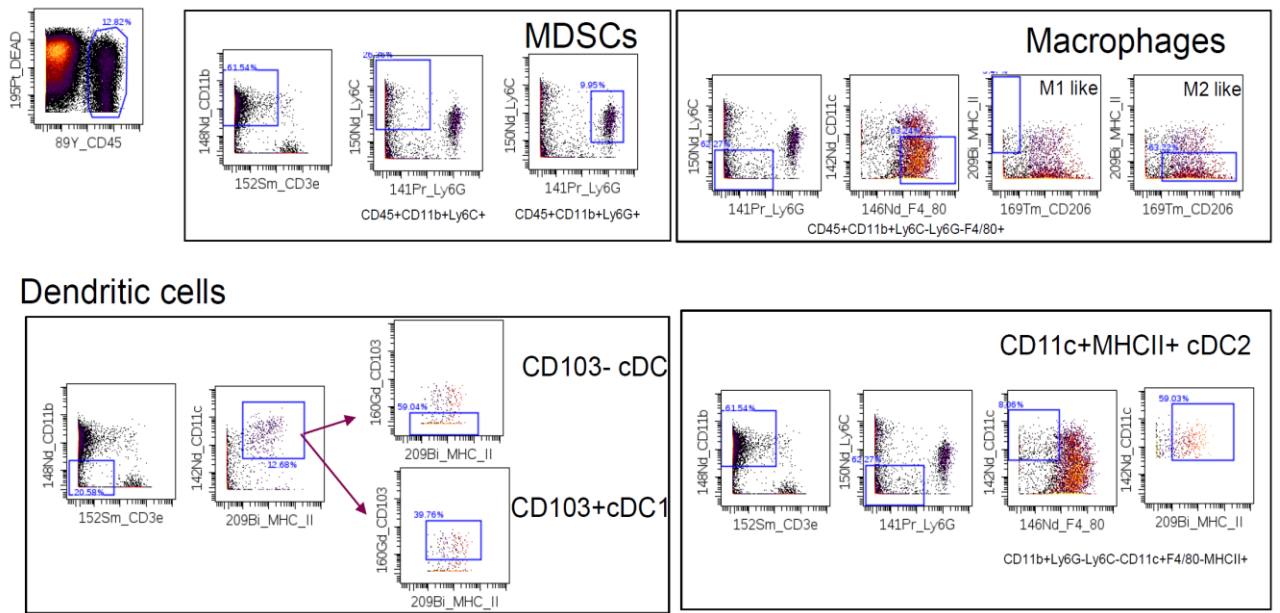


Supplementary Methods

Supplemental methods Figure 1:



Supplemental methods Figure 2:



Supplemental table 4. List of antibodies used for flow cytometry

Antibody	Fluorochrome	Clone	Vendor	Catalogue #	Lot #	Optimized ul/Test
CD103	BUV395	M290	Biolegend	740238	8106948	0.56
CD4	BUV496	GK1.5	BD Bioscience	564667	8080653	0.25
CD11b	PBUV737	M1/70	Biolegend	564443	8206860	0.06
PD-1	BV421	29F.1A12	BD Bioscience	135218	B248583	0.50
CD19	BV480	1D3	Biolegend	566107	7237740	0.33
NKp46	BV605	29A1.4	Biolegend	137619	B238586	1.677
CD11c	BV650	N418	Biolegend	117339	B253523	0.33
Ly6G	BV711	1A8	Biolegend	127643	B211909	0.75
CD44	BV786	C068C2	Biolegend	141729	8004680	0.56
MHCII	AF488	M5/114.15.2	Biolegend	107616	B239517	0.07
CD45	PerCp-Cy5.5	30-F11	BD Bioscience	550994	7271979	0.75
CD3	PE	17A2	Biolegend	100206	B277806	0.56
Ly6C	PE-D594	HK1.4	Biolegend	128044	B245029	0.33
Ki67	PE-Cy7	SoIA15	eBioscience	25-5698-82	4339660	0.02
Granzyme B	AF647	GB11	ThermoFisher	515406	B233111	1.67
F4/80	AF700	BM8	BD Bioscience	123130	B203869	0.55
CD8a	APC-H7	53-6.7	BD Bioscience	560182	8073752	1.67
Anti-Mouse CD16/32	Purified	93	eBioscience	14-0161-86	E03559-1636	0.5

Supplemental table 5. List of antibodies used for CyTOF

	Tag	Target	Product ID (Supplier)
1	89Y	CD45	3089005B (Fluidigm)
2	115In	Rb anti-ASO	Ionis Pharmaceuticals
		aRabbit-115In (custom conjugated to Indium)	31213 (ThermoFisher Scientific)
3	141Pr	Ly-6G	3141008C (Fluidigm)
4	142Nd	CD11c	3142003B (Fluidigm)
5	143Nd	GITR	3143019C (Fluidigm)
6	144Nd	H2-Db/ MHC class	3144016B (Fluidigm)
7	145Nd	CD4	3145002B (Fluidigm)
8	146Nd	F4/80	3146008B (Fluidigm)
9	147Sm	FASL (custom conjugated to 147Sm)	AF526 (BioTechne)
10	148Nd	CD11b	3148003B (Fluidigm)
11	149Sm	Klrg1 (custom conjugated to 149Sm)	16-5893-82 (ThermoFisher Scientific)
12	150Nd	Ly-6C	3150010B (Fluidigm)
13	151Eu	CD25	3151007B (Fluidigm)
14	152Sm	CD3e	3152004B (Fluidigm)
15	153Eu	PD-L1 /CD274	3153016B (Fluidigm)
16	154Sm	CTLA4	315008B (Fluidigm)
17	155Gd	gp38 (custom conjugated to 155Gd)	AF3244 (BioTechne)
18	156Gd	IL6-PE	504504 (BioLegend)
		anti-PE 156Gd	3156005C (Fluidigm)
19	158Gd	pSTAT3	3158030D (Fluidigm)
20	159Tb	PD-1 /CD279	3159024B (Fluidigm)
21	160Gd	CD103-FITC	121419 (BioLegend)
		aFITC-160Gd	3160011C (Fluidigm)
22	161Dy	iNOS	3161011B (Fluidigm)
23	162Dy	TNFa	3162002B (Fluidigm)
24	163Dy	IFNg-APC	17-7311-82 (ThermoFisher Scientific)
		aAPC-163Dy	3163001C (Fluidigm)
25	164Dy	PDGFRa (custom conjugated to 164Dy)	AF1062 (BioTechne)
26	165Ho	CD31	3165013C (Fluidigm)
27	166Er	Arg1 (custom conjugated to 166Er)	AF5868 (BioTechne)
28	167Er	NKp46/CD335	3167008B (Fluidigm)
29	168Er	CD8a	3168003B (Fluidigm)
30	169Tm	CD206/MMR	3169021B (Fluidigm)
31	170Er	Foxp3 (custom conjugated to 170Er)	14-5773-82 (ThermoFisher Scientific)
32	171Yb	GzmB	3171002C (Fluidigm)
33	172Yb	Ki-67	3172024B (Fluidigm)
34	173Yb	Stat3	3173003C (Fluidigm)
35	174Yb	LAG3/CD223	3174019B (Fluidigm)
36	175Lu	CD38	3185014B (Fluidigm)
37	176Yb	ICOS	3176014B (Fluidigm)
38	209Bi	I-A/I-E (MHCI)	3209006C (Fluidigm)
39	193Ir	Iridium 125nM	201192A (Fluidigm)
40	195Pt	Cisplatin	201064 (Fluidigm)
41	102Pd	barcode20plex	201060 (Fluidigm)
42	104Pd	barcode20plex	201060 (Fluidigm)
43	105Pd	barcode20plex	201060 (Fluidigm)
44	106Pd	barcode20plex	201060 (Fluidigm)
45	108Pd	barcode20plex	201060 (Fluidigm)
46	110Pd	barcode20plex	201060 (Fluidigm)