SUPPLEMENTARY MATERIALS

Fig. S1: IL-6 measurements in SBI-101 treated participants
Fig. S2: Time to treatment inversely correlates with TNF-a reduction.
Table S1: Demographic Characteristics (Treated Set)
Table S2: Effect sizes of molecular and cellular PD Biomarkers
Table S3: Multiplex Panels
Table S4: Flow Cytometry Panels

Materials and Methods: Exploratory endpoint analysis

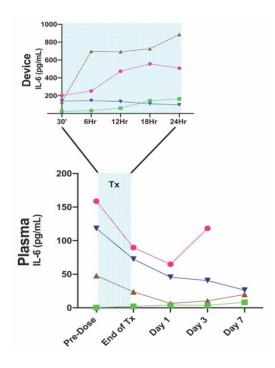


Fig. S1: IL-6 measurements in SBI-101 treated participants subjects.

IL-6 was quantified in the plasma of each participant (n=4, green, brown, blue and pink) pre and post treatment as well as in samples taken directly from the SBI-101 device during the 24 hours of treatment. Despite an increase in detectable IL-6 in the MSC microenvironment during treatment, plasma levels of IL-6 seem to decrease post treatment.



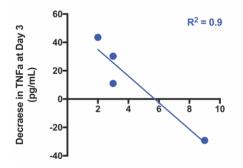


Fig. S2: Time to treatment inversely correlates with TNF- α reduction.

TNF- α was measure in plasma of subjects receiving SBI-101 therapy at baseline and at day 3 post treatment. The delta between the two time points was calculated and plotted against time from diagnosis of AKI to integration of SBI1-10 (IP- Investigational product). Strong correlation (r²=0.9) indicates that patients that receive SBI-101 soon after their diagnosis may be more likely to have larger reductions of pro-inflammatory cytokines such as TNF- α .

Fig. S3. Comparison Analysis of Monocyte-related Diseases and Functions of 250M SBI-101 Treated and Sham.

Disease and Function Analysis Comparison Heatmap was sorted by Hierarchical Clustering based on sample Activation Score. The activation score (Z-score) predicts direction of gene regulation of potential regulators assessing the match of observed and predicted upstream or downstream processes. Z-score serves as both a significance measure and a predictor for the activation state of the regulator (orange, +/activation, blue, -/inhibition). Monocyte-related Diseases and Functions are highlighted.

Table S1: Demographic Characteristics (Treated Set)

	Low Dose (N=12)	Sham (N=4)	Overall (N=16)
Age (years)			
Ν	12	4	16
Mean (SD)	55.9 (9.82)	61.1 (19.39)	57.2 (12.30)
Median	56.3	66.2	56.7
Q1, Q3	50.1, 62.2	47.5, 74.6	50.1, 64.2
Min, Max	38.1, 74.2	33.9, 77.9	33.9, 77.9
Sex, n(%)			
Male	7 (58.3)	1 (25.0)	8 (50.0)
Female	5 (41.7)	3 (75.0)	8 (50.0)
Race, n(%)			
American Indian/Alaska Native	0 (0.0)	0 (0.0)	0 (0.0)
Asian	0 (0.0)	0 (0.0)	0 (0.0)
Black/African American	2 (16.7)	0 (0.0)	2 (12.5)
Caucasian/White	10 (83.3)	4 (100.0)	14 (87.5)
Native Hawaiian/Pacific Islander	0 (0.0)	0 (0.0)	0 (0.0)
Multi-race	0 (0.0)	0 (0.0)	0 (0.0)
Other	0 (0.0)	0 (0.0)	0 (0.0)
Ethnicity, n(%)			
Hispanic or Latino	1 (8.3)	0 (0.0)	1 (6.3)
Not Hispanic or Latino	11 (91.7)	4 (100.0)	15 (93.8)
Weight (kg)			
Ν	12	4	16
Mean (SD)	112.9 (30.83)	96.1 (23.71)	108.7 (29.42)
Median	112.4	91.2	107.4
Q1, Q3	90.2, 132.4	78.4, 113.8	83.8, 129.0
Min, Max	65.8, 171.2	74.2, 127.9	65.8, 171.2
Height (cm)			
Ν	12	4	16
Mean (SD)	171.2 (8.49)	169.6 (4.87)	170.8 (7.63)
Median	174.0	171.5	172.7
Q1, Q3	161.3, 177.8	166.4, 172.9	162.6, 176.6
Min, Max	160.0, 182.9	162.6, 173.0	160.0, 182.9
BMI (kg/m ²)			
Ν	12	4	16
Mean (SD)	38.4 (9.73)	33.5 (8.22)	37.2 (9.38)
Median	37.2	32.7	36.3
Q1, Q3	32.6, 45.7	26.6, 40.3	30.2, 42.6
Min, Max	21.4, 54.2	25.6, 42.9	21.4, 54.2
Child Bearing Status, n(%)			
Yes	1 (8.3)	1 (25.0)	2 (12.5)
No	4 (33.3)	2 (50.0)	6 (37.5)
AKI etiology, n(%)			

Pre-renal azotemia due to hypovolemia, impaired cardiac output/shock	8 (66.7)	3 (75.0)	11 (68.8)
Decreased vascular resistance due to sepsis / anaphylaxis	3 (25.0)	1 (25.0)	4 (25.0)
Renovascular stenosis or occlusion	0 (0.0)	0 (0.0)	0 (0.0)
Other	4 (33.3)	0 (0.0)	4 (25.0)
Time from start of CRRT to treatment with I	P n(%)		
< 3 Days	7 (58.3)	2 (50.0)	9 (56.3)
> 3 Days	5 (41.7)	2 (50.0)	7 (43.8)
> 5 Days	1 (8.3)	1 (25.0)	2 (12.5)
> 7 Days	0 (0.0)	0 (0.0)	0 (0.0)
Discontinuation from IP due to Clotting	5 (41.7)	1 (25.0)	6 (37.5)
Time to IP Discontinuation due to			
Clotting			
Ν	5	1	6
Mean (SD)	2.6 (1.77)	10.2 ()	3.8 (3.49)
Geometric Mean	1.9	10.2	2.5
Median	3.0	10.2	3.6
Q1, Q3	0.8, 4.2	10.2, 10.2	0.8, 4.3
Min, Max	0.6, 4.3	10.2, 10.2	0.6, 10.2

Table S2: Effect sizes of molecular and cellular PD Biomarkers. The most robust PD biomarkers were defined as those with effect sizes greater than one (absolute value). PD biomarkers with effect sizes greater than one on study days 0, 1, 3 or 7.

Mole	cular biomark	ers	
PD Endpoint	Direction of Response	Day	TWA Effect Size
6CKine	Decrease	0	-1.30
B2-Microglobulin	Increase	0 1	1.00 1.01
Cathepsin D	Decrease	3	-1.00
Collagen IV	Decrease	7	-1.07 -1.49
Conagen IV	Decrease	1	-1.44
OT LOV		3	-1.20
CTACK	Decrease	0	-1.80 -1.20
Cystatin	Increase	3	1.08
Eotaxin	Increase	7	1.29
		7	1.09
Eotaxin-1	Decrease	1	-1.25
Flt-3L	Decrease	3	-1.09
G-CSF	Increase	0	2.30
		1	1.90 1.46
GRO alpha	Increase	0	1.40
-		1	1.02
I-309	Decrease	0	-1.82 -1.85
		3	-1.37
IFNa2	Decrease	0	-1.15
		1 3	-1.07 -1.35
		7	-1.10
IFNy	Decrease	7	-1.42
IL-10/TNFa	Increase	0	1.03
		3	1.45
17.10		7	1.47
IL-13	Increase	0	1.27
		3	1.24
IL-15	Decrease	7	-1.28
11-15	Decrease	1	-1.28
IL-3	Increase	7	1.07
IL-5 IL-6/IL-10	Decrease	3	-1.02
112-0/11-10	Decrease	1	-1.43
KIM-1	Decrease	0	-1.12
		1	-1.14
MCP-2	Decrease	0	-1.10 -1.31
		1 3	-1.79 -2.23
		7	-2.23
MCP-3	Decrease	0	-1.64
		1 3	-1.06 -1.02
Osteoactivin	Decrease	0	-1.85
		1	-2.15
		3 7	-4.34 -2.34
PF4	Increase	0	1.73
		1	1.00
SDF-1a+B	Decrease	7	-1.21
		1	-1.06
sIL-2Ra	Decrease	3	-1.03
sTNFRI	Decrease	0	-1.10
		1	-1.03
sTNFRII	Decrease	0	-1.34 -1.18
sVEGFR1	Increase	0	1.10
		1	1.15
		3 7	1.04
TGF-a	Decrease	0	-1.04
TGF-B1 TGF-B2	Increase	7	1.04
IGF-D2	Increase	1	1.41 1.42
		3	1.54
TNFa	Decrease	7	2.39
1.112	Lecrease	1	-1.32
		3	-1.28
TRAIL	Decrease	7	-1.39
	Decrease	7	-1.29

	Direction of		TWA Effect
PD Endpoint	Response	Day	Size
B Cells (Marginal Zone B)	Increase	3	1.03
		7	1.26
B Cells (Unswitched Memory)	Increase	3	1.16
		7	1.55
Dendritic Cells (mDC2)	Increase	1	1.48
		3	2.41
		7	1.07
Dendritic Cells (pDCs)	Decrease	7	-1.27
Dendritic Cells (Total mDCs)	Increase	7	1.00
Monocytes Classical	Decrease	3	-1.15
Monocytes Intermediate	Decrease	0	-1.19
Monocytes Non-classical	Increase	0	1.46
		1	1.07
Monocytes Total	Decrease	3	-1.14
NK cells (CD56bright CD16low)	Increase	3	1.13
NK cells (CD56bright CD8+)	Increase	1	1.13
		3	1.05
NK cells (CD56dim CD16bright)	Increase	0	1.49
		1	1.18
NK cells (CD56dim CD8+)	Increase	0	1.36
CD4+ T Cells (Central Memory)	Increase	0	1.19
		1	1.02
CD4+ T Cells (Lag3+)	Decrease	0	-1.32
		1	-1.38
		3	-1.26
CD4+ T Cells (Naive CD38+)	Increase	0	1.16
CD8+ T Cells (CD69+)	Increase	1	1.02
		3	1.17
CD8+ T Cells (Central Memory)	Increase	3	1.18
		7	1.18
Treg (CD45+ CD4+ CD25- FoxP3+)	Decrease	1	-1.80

Table	S3 :	Multip	lex	Panels
-------	-------------	--------	-----	---------------

Panel	Eve Technologies Cat #	Analytes
Human Cytokine Array/Chemokine Array 65- Plex	HD65	EGF, Eotaxin, FGF-2, Flt-3 ligand, Fractalkine, G-CSF, GM-CSF, GRO, IFN- α 2, IFN- γ , IL-10, IL-12 (p40), IL-12 (p70), IL-13, IL-15, IL-17A, IL-1ra, IL-1 β , IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IP-10, MCP-1, MCP-3, MDC (CCL22), MIP-1 α , MIP-1 β , PDGF-AA, PDGF-AB/BB, RANTES, TGF α , TNF- α , TNF- β , VEGF, sCD40L, Eotaxin-2, MCP-2, BCA-1, MCP-4, I-309, IL-16, TARC, 6CKine, Eotaxin-3, LIF, TPO, SCF, TSLP, IL-33, IL-20, IL-21, IL-23, TRAIL, CTACK, SDF-1a+B, ENA-78, MIP-1d, IL-28A
Human TGFb 3-plex	TGFB1-3	TGF-beta 1, 2, and 3
Human Soluble Cytokine Receptor Array 14- plex	HDSCR14	sCD30, sEGFR, sgp130, sIL-1RI, sIL-1RII, sIL-2Ra, sIL-4R, sIL-6R, sRAGE, sTNF RI, sTNF RII, sVEGF R1, sVEGF R2, sVEGF R3
Human Supplemental Biomarker Array 10- plex	HDHSB10	BDNF, Cathepsin D, MPO, NCAM, PAI-1 (total), PDGF-AA, PDGF-AB/BB, RANTES, sICAM-1, sVCAM-1, Adipsin,
Human Cardiovascular Disease Panel 3 5-Plex	Costum	CRP, Fibrinogen, Haptoglobin, PF4, VWF
Human Kidney Injury Panel 4	Custom	Kim-1
Human Kidney Injury Panel 5	Custom	α-1-Microglobulin, Collagen IV, Lipocalin-2/NGAL, Osteoactivin, TIMP- 1, Uromodulin
Human Kidney Injury Panel 6	Custom	β-2-Microglobulin, Cystatin C

Total CD45: CD3+ B Cells Regulatory CD45: CD3+ CD24: CD24- Unswitched Memory CD45: CD3+ Bpb IgM: CD27: CD38- Marginal Zone B CD45: CD3+ Bpb IgM: CD27: CD38- Nave B Cells CD45: CD3+ Bpb IgM: CD27: CD38- Total CD45: CD3+ Bpb IgM: CD27: CD38- Marginal Zone B CD45: CD3+ Bpb IgM: CD27: CD38- Total CD45: CD3+ Bpb IgM: CD27: CD38- Monocle CD45: Line CD11c Dec1 CD54: Line CD11c MC1 CD45: Line CD11c MC2 CD45: Line CD11c CD41 3 monocyte subsets summed Cdasical CD45: Line CD11c Monocyte Sesical CD45: Line CD11c Nine Cells CD45: CD56: CD30- Nine Cells CD45: CD56: CD30- Nine Cells CD45: CD56: CD40- Nine Cells CD45: CD56: CD40- Nine Cells CD45: CD56: CD40- Nine Co56: MD100- CD45: CD56: CD40- Nine Cells CD45: CD56: CD40- Nine Cells CD45: CD56: CD40- Nine Cells <	Panel	Subset	Markers
B Cells Unswitched Memory CD45+ (D19-1gb/tel), Rdb+ CD27- CD38+ (D47+CD2+CD38+) B Cells CD45+ CD19-1gb/tel, Rdb+ CD27+ CD38+ (D47+CD3+CD38+) Marginal Zone B CD45+ CD19-1gb/tel, Rdb+ CD27+ CD38+ (D47+CD3+CD38+) Marginal Zone B CD45+ CD19-1gb/tel, Rdb+ CD27+ CD38+ (D47+CD38+) Total mDC3 CD45+ CD19+1gb/tel) Total mDC3 CD45+ LD12+1gb/tel) Total mDC3 CD45+ LD12+1gb/tel) Total mDC3 CD45+ LD12+1gb/tel) Total C CD45+ LD12+1gb/tel) Total C CD45+ LD12+1gb/tel) Total C CD45+ LD20+1gb/tel)			
B Cells Transitional B Cells CD45+ CD41+ igD+ igD+ (gM+CD27-CD38+ CD24+ Marginal Zone B CD45+ CD41+ igD+ igD+ CD27+ CD38+ CD45+ CD41+ igD+ CD27+ CD38+ CD45+ CD41+ igD+ CD27+ CD38+ CD45+ CD41+ igD+ CD27+ CD38+ CD45+ CD41+ CD21+ CD45+ CD47+ CD41 Dendritic Cells CD45+ CD41+ igD+ igD+ CD27+ CD45+ CD41+ CD11+C CD14+ CD16+ CD16+ CD12+ CD12+ CD12+ CD12+ CD12+ CD12+ CD12+ CD12+ CD12+ CD12+ CD12+ CD14+ CD12+ CD14			
B Cells Plasmablasts CD45+ CD3+ igD- igD- igD- igD- CD27+ CD38+ Marginal Zone B CD45+ CD3+ igD+ CD27- CD38- Marginal Zone B CD45+ CD3+ igD+ CD27- CD38- Total mDCs CD45+ CD3+ igD+ CD27- Total mDCs CD45+ Lin- CD11+C Dendritic CD26- CD16+ mDCs CD45+ Lin- CD11+C Natural Natural CD45+ Lin- CD11+C Natural CD45+ Lin- CD11+C Lin-CD11+C Natural CD45+ Lin-CD11+C Lin-CD11+C Natural CD45+ Lin-CD11+C Lin-CD11+C Natural Lin-CD11+C <t< td=""><td></td><td></td><td></td></t<>			
Switched Memory. CD45+ CD19+ (gb-C027+ Naïve B Cells CD45+ CD19+ (gb-C027+ Total mOCG CD45+ Lin-C011e+ DC1 CD45+ Lin-C011e+ DC2 CD45+ Lin-C011e+ DC3 CD45+ Lin-C011e+ DC4 CD45+ Lin-C011e+ DC4 CD45+ Lin-C011e+ DC5 CD45+ Lin-C011e+ DC6 CD45+ Lin-C011e+ Non-classical CD	B Cells		
Marginal Zone B CD45+ C013+ IgD+ CD27- Tetal mDCs CD45+ Lin- CD11++ mOC1 CD45+ Lin- CD11++ mDC1 CD45+ Lin- CD11++ mDC2 CD45+ Lin- CD11++ mDC3 CD45+ Lin- CD11++ mDC4 CD45+ Lin- CD11++ mDC5 CD45+ Lin- CD11++ Cassical CD45+ HA.DPH+ Tatal 3 monocyte substs summed Cassical CD45+ HA.DPH+ NAT Cells CD45+ HA.DPH+ NAT Cells CD45+ HA.DPH+ NAT Cells CD45+ HA.DPH+ NAT Cells CD45+ CD56+ CD31+ NAT Cells CD45+ CD56+ CD31+ NAT Cells CD45+ CD56+ CD31+ NAT Cells CD45+ CD56+ CD3+ NAT Co256dm CD160w CD45+ CD56+ CD3+ NAT Co256dm CD61+ CD45+ CD56+CD3+ NAT Co256dm CD61+ CD45+ CD4+CD25+ ForeP3+ <			
Naïve B celis CD4+ CD2+ IDP-CD2- Dendritic mDC2 CD45+ ID-CD11++ mDC2 CD45+ ID-CD11++ CD16+ DC2 CD45+ ID-CD11++ CD16+ DC2 CD45+ ID-CD11++ CD16+ DC4 CD45+ ID-CD11++ CD45+ MODOC/VES CD45+ ID-CD11++ CD45+ Ital 3 monocyte subsets summed CD45+ MOTOCIDS CD45+ IDA-DH+CD14+ CD16+ Non-classical CD45+ IDA-DH+CD14+ CD16+ Non-classical CD45+ IDA-DH+CD14+ CD16+ NK T Celis CD45+ CD56+CD30w NM NK T Celis CD45+ CD56+CD31w NM NK CD56bright CD16ion CD45+ CD56+CD31w NM NK CD56bright CD60w CD45+ CD56+CD31w NM NK CD56bright CD4-DD25+ FoxP31w CD45+ CD56+CD31w NM NK CD56bright CD4-DD25+ FoxP31w CD45+ CD4+CD25+ FoxP31w NM NK CD56bright CD4-DD25+ FoxP31w CD45+ CD4+CD25+ FoxP31w NM Treg CD45+ CD4+CD25+ FoxP31w CD45+ CD4+CD25+ FoxP31w CD45+ CD4+CD25+ <td></td> <td></td> <td></td>			
Teal mDCs CD45+ Lin-CD14+ CD14+ CD14+ CD16+ mDC1 CD45+ Lin-CD14+ CD14+ CD14+ CD16+ mDC2 CD45+ Lin-CD14+ CD14+ CD16+ CD16+ mDC3 CD45+ Lin-CD11+C CD123+ Total 3 monocyte subsets summed Classical CD45+ HIA-DR+ CD14+ CD16+ Intermediate CD45+ HIA-DR+ CD14+ CD16+ NRT Cells CD45+ HIA-DR+ CD14+ CD16+ NRT Cells CD45+ CD36+ CD30w NK T Cells CD3 might CD45+ CD36+ CD30w NK CD5Bright CD16ion CD45+ CD56+ CD30w NK CD5Bright CD16iow CD45+ CD56+CD31w NK CD56dim CD8- CD45+ CD56dim CD8- NK CD56dim CD8- CD45+ CD4+ CD25+ Fore3bight NK CD56dim CD8- CD45+ CD4+ CD25+ Fore3bight Trg CD45+ CD4+ CD25+ Fore3bight CD			
Dedriftic Cells DPC2 D45+ Lin- C011e+ C016+ DD2 D45+ Lin- C011e+ C1E(3A+ C016+ D16 mD02 D45+ Lin- C011e+ C1E(3A+ C016+ D16 monop(resubers summed) Gassical Classical C045+ LIA-DR+ C014+ C016+ Non-classical C045+ LIA-DR+ C014+ C016+ Non-classical C045+ LIA-DR+ C014+ C016+ NK T Cells C045+ C056+ C030 NK T Cells C045+ C056+ C030 NK T Cells C045+ C056+ C031 NK C056dinght C016int C045+ C056+ C030 NK C056ding C08+ C045+ C04+ C025+ Fox930 Treg C045+ C04+ C025+ Fox930 C045+ C04+ C025+ Fox930 Treg C045+ C04+ C025+ Fox930 C045+ C04+ C025+ Fox930			
Deck DC2 CD45+ Lin: CD114: CLEC9A+CD16+ DC5 DD45+ Lin: CD114: CD123+ Total 3 monocyte subsets summed Intermediate CD45+ HLA.DR+CD14+CD16+ Intermediate CD45+ HLA.DR+CD14+CD16+ Non-Classical CD45+ HLA.DR+CD14+CD16+ Intermediate CD45+ HLA.DR+CD14+CD16+ NKT Cells CD45+ HLA.DR+CD14+CD16+ Intermediate CD45+ HLA.DR+CD14+CD16+ NKT Cells CD45+ CD56+CD31ow CD45+CD56+CD31ow Intermediate NKT Cells CD45+CD56+CD31ow CD45+CD56+Inght CD16inw Intermediate NK CD56bright CD16low CD45+CD56+Inght CD16inw Intermediate Intermediate NK CD56dim CD8+ CD45+CD56+Inght CD16inw Intermediate Intermediate NK CD56dim CD8+ CD45+CD56+Inght CD16inw Intermediate Intermediate NK CD56dim CD8+ CD45+CD56+Inght CD45+CD56+Inght Intermediate NK CD56dim CD8+ CD45+CD56+Inght CD45+CD56+Inght Intermediate NK CD56dim CD8+ CD45+CD4+CD25+Fox910w CD45+CD4+CD25+Fox910w Intermediate Treg CD45+CD4+CD25+Fox910w CD45+CD4+CD25+Fox910w </td <td></td> <td></td> <td></td>			
D16 D05 D045 Lin : D114: C1EC9A: D164 Joba Od95 D045 Line CD12 D124 Total 3 monoxyte subsets summed D045: HL-DR+ C014+ C016- Intermediate D45: HL-DR+ C014+ C016+ Nor Cassical C045: HL-DR+ C014+ C016+ NK T Cells C045: C036-0030rght NK T Cells C03 Bright C045: C056-036 NK CoSbright C0150m C045: C0560rght C0160m NK CD56ding C0160rght C045: C0560rght C0160m NK CD56din C0160rght C045: C0560rght C0160m NK CD56din C08- C045: C0560rght C08+ NK CD56din C08- C045: C0560rght C08+ NK CD56din C08- C045: C0560rght C08+ NK CD56din C08- C045: C042: C025 NK C056din C08- C045: C042: C025 NK C056ding C08+ C045: C042: C025 Treg C045: C042: C025: FoxP			
Total 3 monocyte subsets summed Gassical CD45+ HLA-DR+ CD14+ CD16- Intermediate CD45+ HLA-DR+ CD14+ CD16+ Non-classical CD45+ HLA-DR+ CD14+ CD16+ Non-classical CD45+ HLA-DR+ CD14+ CD16+ NKT Cells CD45+ CD56+ CD30- NKT Cells CD45+ CD56+ CD30- NK T Cells CD45+ CD56+ CD30- NK CD56bright CD16low CD45+ CD56bright CD16low NK CD56bright CD16lot CD45+ CD56bright CD16low NK CD56dim CD8- CD45+ CD56dim CD8- NK CD56dim CD8- CD45+ CD56dim CD8+ NK CD56dim CD8- CD45+ CD56dim CD8+ NK CD56dim CD8- CD45+ CD56dim CD8+ NK CD56dim CD8- CD45+ CD56bright CD8- NK CD56dim CD8+ CD45+ CD4+ CD25+ FoxP3Iow Treg CD45+ CD4+ CD25+ FoxP3Iow CD45+ CD4+ CD25+ FoxP3Iow Treg CD45+ CD4+ CD25+ FoxP3Iow CD45+ CD4+ CD25+ FoxP3Iow Treg CD45+ CD4+ CD25+ FoxP3Iow CD45+ CD4+ CD25+ FoxP3Iow Treg CD45+ CD4+ CD25+ FoxP3Iow CD45+ CD4+ CD25+ FoxP3Iow Treg CD45+ CD4+ CD25+ FoxP3Iow CD45+ CD4+ CD25+ FoxP3Iow CD45+ CD4+ CD27 CD45+ CD4+ CD27	Cells	CD16+ mDCs	CD45+ Lin- CD11c+ CLEC9A- CD16+
Monocytes Cassical Cd45 HLA-DR + CD14 + CD16+ Mon-classical Non-classical CD45 + HLA-DR + CD14 + CD16+ Mon-classical CD45 + HLA-DR + CD14 + CD16+ MK T Cells NK T Cells CD45 + CD56 + CD36+ MK CD56 right CD45 + CD56 + CD36+ MK CD56 right NK Cells CD45 + CD56 + CD36+ MK CD56 right CD16 + MK CD56 right NK CD56 right CD16 + MK CD56 right CD16 + MK CD56 right NK CD56 right CD16 + MK CD56 right CD16 + MK CD56 right NK CD56 right CD8 + MK CD56 right CD8 + MK CD56 right NK CD56 right CD8 + MK CD56 right CD8 + MK CD56 right NK CD56 right CD8 + MK CD56 right CD8 + MK CD56 right NK CD56 right CD8 + MK CD56 right CD8 + MK CD56 right Treg CD4 + CD4 + CD2 + FoxP3 + Mreg CD4 + CD4 + CD2 + FoxP3 + Mreg CD4 + CD4 + CD2 + FoxP3 + Mreg CD4 + CD4 + CD2 + Mreg CD4 + CD4 + CD2 + Mreg CD4 + CD4 + CD2 + Mreg CD4 + Mreg CD4 + Mreg CD4 + CD2 + Mreg CD4 + CD2 + Mreg CD4 + CD2 + Mreg CD4 + Mreg CD4 + CD2 + Mreg CD		pDCs	CD45+ Lin- CD11c-CD123+
Intermediate CD45+ HLA-DR+ CD14+ CD16+ Non-classical CD45+ HLA-DR+ CD14- CD16+ NK T Cells CD45+ CD56+ CD3inght NK T Cells CD45+ CD56+ CD3inght NK Colls CD45+ CD56+ CD3inght NK CD56bright CD16int CD45+ CD56bright CD16int NK CD56dim CD16int CD45+ CD56bright CD16int NK CD56dim CD16int CD45+ CD56dim CD8- NK CD56dim CD8- CD45+ CD56dim CD8- NK CD56dim CD8- CD45+ CD56dim CD8- NK CD56dim CD8- CD45+ CD56bright CD8- NK CD56bright CD8- CD45+ CD4+ CD25+ FoxP31+ Treg CD45+ CD4+ CD25+ FoxP31+ CD45+ CD4+ CD25+ FoxP31+ Treg CD45+ CD4+ CD25+ FoxP31+ CD45+ CD4+ CD25+ FoxP31+ Treg CD45+ CD4+ CD25+ FoxP31+ CD45+ CD4+ CD25+ FoxP31+ Treg CD45+ CD4+ CD25+ FoxP31+ CD45+ CD4+ CD25+ FoxP31+ Treg CD45+ CD4+ CD25+ FoxP31+ CD45+ CD4+ CD25+ FoxP31+ Treg CD45+ CD4+ CD25+ FoxP31+ CD45+ CD4+ CD25+ FoxP31+ Treg CD45+ CD4+ CD25+ FoxP31+ CD45+ CD4+ CD25+ FoxP31+ Treg CD45+ CD4+ CD25+ FoxP31+ CD45+ CD4+ CD25+ FoxP31+ CD45+ CD4+ CD25+ FoxP31+ CD45+ CD4+ CD25+ <		Total	
Intermediate CD43+ HLA-DR+ CD4+ CD16+ Non-classical CD45+ HLA-DR+ CD4+ CD16+ NK T Cells CD45+ CD56+ CD310w NK T Cells CD3 Bright CD45+ CD56+ CD310w NK Cells CD45+ CD56+ CD310w NK Col56bright CD16int CD45+ CD56bright CD16int NK CD56bright CD16int CD45+ CD56bright CD16int NK CD56dim CD8- CD45+ CD56dim CD8- Treg CD45+ CD4+ CD25+ FoxP310w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD25+ FoxP310w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD25+ FoxP310w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD25+ FoxP310w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD25+ FoxP310w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD25+ FoxP310w CD4+ CD25+ FoxP310w Teg CD45+ CD4+ CD25+ FoxP310w CD4+ CD25+ FoxP310w CD4+ CD4	Monocytes		
NK T. Cells D045 + CD56 + CD3/mght NK Cells CD45 + CD56 + CD3/mght NK Cells CD45 + CD56 + CD3/mght Natural NK CD56bright CD16low CD45 + CD56bright CD16lom NK D56bright CD16loft CD45 + CD56bright CD16loft NK CD56bright CD16loft CD45 + CD56dim CD8 NK CD56dim CD8- CD45 + CD56dim CD8 NK CD56dim CD8 + CD45 + CD56dim CD8 NK CD56dim CD8 + CD45 + CD56dim CD8 NK CD56bright CD8 + CD45 + CD56bright CD8 + NK CD56bright CD8 + CD45 + CD4 + CD25 + FoxP3 + Treg CD45 + CD4 + CD25 + FoxP3 + CD45 + CD4 + CD25 + FoxP3 + Treg CD45 + CD4 + CD25 + FoxP3 + CD45 + CD4 + CD25 + FoxP3 + CD45 + CD4 + CD25 + FoxP3 + CD45 + CD4 + CD25 + FoxP3 + CD45 + CD4 + CD25 + CD45 + CD4 + CD25 + CD45 + CD4 + CD25 + FoxP3 + CD45 + CD4 + CD25 + CD45 + CD4 + CD25 + FoxP3 + CD45 + CD4 + CD25 + CD45 + CD4 + CD25 + FoxP3 + CD45 + CD4 + CD25 + CD4 + CD127low CD45 + CD4 + CD25 + CD4 + CD4 + CD2 + CD4 + CD25 + CD4 + T Cells CD45 + CD4 + CD25 + <tr< td=""><td>nonocytes</td><td></td><td></td></tr<>	nonocytes		
NK T. Cells CD3 Bright CD45+ CD56+ CD3Pright NK CD56bright CD16low CD45+ CD56bright CD16low NK CD56bright CD16low CD45+ CD56bright CD16low NK CD56bright CD16low CD45+ CD56dim CD16bright NK CD56dim CD8 CD45+ CD56dim CD8- NK CD56dim CD8- CD45+ CD56dim CD8- NK CD56dim CD8+ CD45+ CD56dim CD8- NK CD56dim CD8+ CD45+ CD56bright CD8- NK CD56bright CD8+ CD45+ CD55bright CD8- NK CD56bright CD8+ CD45+ CD4+ CD25+ FoxP30w Treg CD45+ CD4+ CD25+ FoxP31wp CD45+ CD4+ CD25+ FoxP31wp Treg CD45+ CD4+ CD25+ FoxP31wp CD45+ CD4+ CD25+ FoxP31wp CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD25+ FoxP31wp CD45+ CD4+ CD127low FoxP3+ CD45+ CD3+ CD25+ CD25+ Th17 <td< td=""><td></td><td></td><td></td></td<>			
NK Cells Od45+ CD56+CD3- NK CD56bright CD16low CD45+ CD56bright CD16low NK CD56bright CD16int CD45+ CD56bright CD16bright NK CD56dim CD8- CD45+ CD56dim CD8- NK CD56dim CD8- CD45+ CD56bright CD8- NK CD56bright CD8- CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD25+ FoxP310w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD25+ FoxP310w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD25+ FoxP310w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD25+ FoxP310w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD25+ FoxP310w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD12710w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD12710w CD45+ CD4+ CD12710w Treg CD45+ CD4+ CD12710w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD12710w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD12710w CD45+ CD4+ CD25+ FoxP310w Treg CD45+ CD4+ CD12710w CD45+ CD4+ CD25+ CD4+ CD25+ CD4+ CD25+ CD4+ CD25+ CD4+ CD25+ CD4+ CD4+ CD4+ CD4+ CD4+ CD4+ CD4+			
Natural INK CDS56bright CD16iow CD45+ CD56bright CD16int NK CD56dim CD16bright CD45+ CD56dim CD18bright INK NK CD56dim CD16bright CD45+ CD56dim CD8+ INK NK CD56dim CD8+ CD45+ CD56dim CD8+ INK NK CD56dim CD8+ CD45+ CD56dim CD8+ INK NK CD56bright CD8+ CD45+ CD56bright CD8+ INK Treg CD45+ CD4+ CD25+ FoxP3+ CD45+ CD4+ CD25+ FoxP3- INK Treg CD45+ CD4+ CD25+ FoxP3- CD45+ CD4+ CD25+ FoxP3- INK Treg CD45+ CD4+ CD25+ FoxP3- CD45+ CD4+ CD25+ FoxP3- INK CD45+ CD4+ CD25+ FoxP3- CD45+ CD4+ CD25+ FoxP3- INK CD45+ CD4+ CD25+ FoxP3- CD45+ CD4+ CD25+ FoxP3- INK CD45+ CD4+ CD25+ FoxP3- CD45+ CD4+ CD25+ FoxP3- INK CD45+ CD4+ CD25+ CD4+ CD25+ CD45+ CD4+ CD25+ INK CD45+ CD4+ CD25+ CD4+ CD25+ CD45+ CD4+ CD25+ INK CD45+ CD4+ CD25+ CD4+ CD25+ CD4+ INK INK CD45+ CD4+ CD25+ CD4+ CD25+ CD4+ INK INK CD45+ CD4+ CD25+ CD4+ CD25+ CD4+ INK <t< td=""><td></td><td></td><td></td></t<>			
Natural Killer Cells INK CD55dim CD16bright CD45+ CD55dim CD16bright NK CD55dim CD8- CD45+ CD55dim CD8- NK CD55dim CD8+ NK CD55dim CD8+ CD45+ CD55dim CD8+ NK CD55dim CD8+ NK CD55dim CD8+ CD45+ CD55dim CD8+ NK CD55dim CD8+ NK CD55dim CD8+ CD45+ CD56dim CD8+ NK CD55dim CD8+ NK CD55dim CD8+ CD45+ CD4+ CD25+ FoxP3+ CD45+ CD4+ CD25+ FoxP3+ Treg CD45+ CD4+ CD25+ FoxP31ow CD45+ CD4+ CD25+ FoxP3- CD45+ CD4+ CD25+ FoxP3- Treg CD45+ CD4+ CD25+ FoxP31ow CD45+ CD4+ CD25+ FoxP3- CD45+ CD4+ CD25+ FoxP3- Cd45+ CD4+ CD25+ CD4+ CD25+ FoxP3- CD45+ CD4+ CD25+ FoxP3- CD45+ CD4+ CD25+ Cd45+ CD4+ CD25+ CD4+ CD25+ CD4+ CD27- CD45+ CD4+ CD27- CD45+ CD4+ CD27- Treg CD45+ CD4+ CD27+ CD27+ CD45+ CD4+ CD127- CD45+ CD4+ CD127- Trag CD45+ CD4+ CD127- CD45+ CD4+ CD127- CD45+ CD4+ CD127- CD4+ T Cells CD45+ CD3+ CD4+ CD8- CD3+ CD4+ T Cells CD45+ CD3+ CD4+ CD8- CD3+ CD4+ Lag3- CD45+ CD3+ CD4+ CD8- CD3+ CD4+ Lag3- CD45+ CD3+ CD4+ CD8- CD4+ <			
NATURA INK CD56dim CD16bright NIK CD56dim CD8: CD45+ CD56dim CD8: NK CD56dim CD8: CD45+ CD56dim CD8: NK CD56dim CD8: CD45+ CD56dim CD8: NK CD56dright CD8: CD45+ CD56dright CD8: NK CD56dright CD8: CD45+ CD56dright CD8: NK CD56dright CD8: CD45+ CD4+ CD25+ FoxP3+ Treg CD45+ CD4+ CD25+ FoxP31ow CD45+ CD4+ CD25+ FoxP31ow Treg CD45+ CD4+ CD25+ FoxP31op CD45+ CD4+ CD25+ FoxP3+ Treg CD45+ CD4+ CD25+ FoxP31op CD45+ CD4+ CD25+ FoxP31ow Cells CD45+ CD4+ CD25+ CA5+ CD4+ CD25+ FoxP31op CD45+ CD4+ CD25+ Cells CD45+ CD4+ CD39+ CD45+ CD4+ CD39+ CD45+ CD4+ CD127low CD45+ CD4+ CD127low CD45+ CD4+ CD127low Th17 CD45+ CD4+ CD25+ CD45+ T Cells CD45+ CD3+ CD4+ CD8+ CD4+ Lag3+ CD45+ CD3+ CD4+ CD8+ CD4+ Central Memory CD45+ CD3+ CD4+ CD8+ CD4+ Effector CD45+			
Killer Cells IDX CD55dim CD8: NK CD55dim CD8+ CD45+ CD55dim CD8+ NK CD55dim CD8+ CD45+ CD55dim CD8+ NK CD55bright CD8- CD45+ CD55bright CD8+ NK CD55bright CD8+ CD45+ CD54bright CD8+ Treg CD45+ CD4+ CD25+ FoxP31ew CD45+ CD54bright CD8+ Treg CD45+ CD4+ CD25+ FoxP31ew CD45+ CD4+ CD25+ FoxP3high Treg CD45+ CD4+ CD25+ FoxP31ew CD45+ CD4+ CD25+ FoxP3high Cd45+ CD4+ CD25+ CD45+ CD4+ CD25+ Cd5+ CD4+ CD25+ CD45+ CD4+ CD25+ Cd5+ CD4+ CD27how CD45+ CD4+ CD27how Treg CD45+ CD4+ CD27how CD45+ CD4+ CD27how Treg CD45+ CD4+ CD127how CD45+ CD4+ CD8- CD41+ Cells CD45+ CD3+ CD4+ CD8- CD41+ Cells CD45+ CD3+ CD4+ CD8- CD41+ Lag3- CD45+ CD3+ CD4+ CD8- CD4+ Effecto			-
NK CD56dim CD8+ CD45+ CD56dim CD8+ NK CD56bright CD8- CD45+ CD56bright CD8- NK CD56bright CD8+ CD45+ CD56bright CD8- NK CD56bright CD8+ CD45+ CD56bright CD8- NK CD56bright CD8+ CD45+ CD4+ CD25+ FoxP3+ Treg CD45+ CD4+ CD25+ FoxP3iow CD45+ CD4+ CD25+ FoxP3iow Treg CD45+ CD4+ CD25+ FoxP3ingh CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD27/ow CD45+ CD4+ CD27+ CD45+ CD4+ CD127/low CD45+ CD4+ CD27+ TD17 CD45+ CD4+ CD27+ CD45+ CD4+ CD127/low CD45+ CD4+ CD27+ CD41+ CB13 CD45+ CD3+ CD4+ CD27+ CD41+ CB13 CD45+ CD3+ CD4+ CD8- CD41+ LB23- CD45+ CD3+ CD4+ CD8- CD41+ CB127 CD45+ CD3+ CD4+ CD8- </td <td>Killer Cells</td> <td>-</td> <td>-</td>	Killer Cells	-	-
NK CD56dm CD8+ CD45+ CD56dm CD8+ NK CD56bright CD8+ CD45+ CD56bright CD8+ Treg CD45+ CD4+ CD25+ FoxP3+ CD45+ CD4+ CD25+ FoxP3+ Treg CD45+ CD4+ CD25+ FoxP3Iow CD45+ CD4+ CD25+ FoxP3Iow Treg CD45+ CD4+ CD25+ FoxP3Iow CD45+ CD4+ CD25+ FoxP3Iow Cells CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD127low CD45+ CD4+ CD25+ CD45+ CD4+ CD127low CD45+ CD4+ CD127low Treg CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD25+ CD45+ CD4+ CD127low CD45+ CD4+ CD127low Treg CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low Treg CD45+ CD4+ CD127low CD45+ CD3+ CD4+ CD8-Lag3+ CD4+ Lag3+ CD45+ CD3+ CD4+ CD8-La			
NK CD56bright CD8- CD45+ CD56bright CD8- NK CD56bright CD8+ CD45+ CD4+ CD25-FoxP3+ Treg CD45+ CD4+ CD25+ FoxP3+ CD45+ CD4+ CD25+ FoxP3hwy Treg CD45+ CD4+ CD25+ FoxP3high CD45+ CD4+ CD25+ FoxP3hwy Cells CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD45+ CD4+ CD25+ CD45+ CD45+ CD4+ CD25+ CD45+ CD45+ CD4+ CD25+ CD45+ CD45+ CD4+ CD127low CD45+ CD45+ CD4+ CD127low CD45+ CD45+ CD4+ CD127low CD45+ CD45+ CD4+ CD127low CD45+ CD4+ T Cells CD45+ CD4+ T Cells CD45+ CD4+ Lag3+ CD45+ CD4+ Lag3- CD45+ CD4+ Lag3- CD45+ CD4+ Lag3- CD45+ CD4+ Lag3- CD45+ CD4+ Central Memory CD45+ CD4+ Effector Memory CD45+ CD4+ Effector Memory CD45+ CD4+ LB28+ CD4+ CD4+ LB28+ CD4+ CD4+ Effector Memory CD45+			
NK CDS6bright CD8+ CD45+ CD56bright CD8+ Treg CD45+ CD4+ CD25+ FoxP3low CD45+ CD4+ CD25+ FoxP3low Treg CD45+ CD4+ CD25+ FoxP3logh CD45+ CD4+ CD25+ FoxP3logh Cells CD45+ CD4+ CD25+ FoxP3logh CD45+ CD4+ CD25+ FoxP3logh CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD27/low CD45+ CD4+ CD127low CD45+ CD4+ CD127low CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low Treg CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low Treg CD45+ CD4+ CD127low FoxP3+ CD45+ CD3+ CD4+ CD8+ Lg3+ CD45+ CD3+ CD4+ CD8+ Lg3+ CD4+ Lg33+ CD45+ CD3+ CD4+ CD8+ Lg3+ CD4+ Lg33+ CD45+ CD3+ CD4+ CD8+ Lg3- CD4+ Lg33+ CD45+ CD3+ CD4+ CD8+ Lg3- CD4+ CD8+ Lg3- CD4+ CD8+ CD3+ CD4+ CD8+ CD8+ CD4+ Lg33+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7+ CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7+ CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7+ CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7+ CD4+ Naive CD38+ CD4			
Treg CD45+ CD4+ CD25+ FoxP3low CD45+ CD4+ CD25+ FoxP3loph Treg CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ Cells CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD39+ CD45+ CD4+ CD127low CD45+ CD4+ CD39+ CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low Treg CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD27low Treg CD45+ CD4+ CD127low FoxP3+ CD45+ CD3+ CD4+ CD25+ Th17 CD45+ CD3+ CD4+ CD8+ CD4+ T Cells CD45+ CD3+ CD4+ CD8- CD4+ Lag3+ CD45+ CD3+ CD4+ CD8- CD4+ Lag3+ CD45+ CD3+ CD4+ CD8- CD4+ Lag3+ CD45+ CD3+ CD4+ CD8+ CD4+ Lag3- CD45+ CD3+ CD4+ CD8+ CD4+ Naive CD45+ CD3+ CD4+ CD8+ CD4+ Trefector CD45+ CD3+ CD4+ CD8+ CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CR7- CD4+ Naive CD59+ </td <td></td> <td></td> <td>0</td>			0
Treg CD45+ CD4+ CD25+ FoxP3high CD45+ CD4+ CD25+ Cells CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ CD45+ CD4+ CD39+ CD45+ CD4+ CD39+ CD45+ CD4+ CD127low CD45+ CD4+ CD127low Treg CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low Treg CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low Th17 CD45+ CD4+ CD127low CD41+ Cells CD45+ CD3+ CD4+ CD8- CD41+ Lag3+ CD45+ CD3+ CD4+ CD8- CD41+ Lag3- CD45+ CD3+ CD4+ CD8- CD8+ Lag3- CD45+ CD3+ CD4- CD8+ CD8+ Lag3- CD45+ CD3+ CD4+ CD8- CD8+ Lag3- CD45+ CD3+ CD4+ CD8- CD8+ Lag3- CD45+ CD3+ CD4+ CD8- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD4+ Effector CB69+ CD45+ CD3+ CD4+ CD8- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD4+ Naïve CD8+ CD45+ CD3+ CD4+ CD8- CD4		Treg CD45+ CD4+ CD25- FoxP3+	CD45+ CD4+ CD25- FoxP3+
Treg / Th17 CD45+ CD4+ CD25+ CD45+ CD4+ CD25+ Cells CD45+ CD4+ CD39+ CD45+ CD4+ CD127low CD45+ CD4+ CD127low CD45+ CD4+ CD127low CD45+ CD4+ CD127low Teg CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low FoxP3+ CD25+ Th17 CD45+ CD4+ CD8- CD4+ T Cells CD45+ CD3+ CD4+ CD8- CD4+ Lag3+ CD45+ CD3+ CD4+ CD8- CD4+ Lag3- CD4+ CD4+ Naive CD45+ CD3+ CD4+ CD8- CD4+ Naive CD45+ CD3+ CD4+ CD8- CD4+ Effector Memory CD45+ CD3+			CD45+ CD4+ CD25+ FoxP3low
Cells CD45+ CD4+ CD39+ CD45+ CD4+ CD127low Treg CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ ROTgt+ Th17 CD45+ CD4+ ROTgt+ CD45+ CD4+ ROTgt+ CD41+ Lag3+ CD45+ CD4+ CD3+ CD4+ CD8- CD8+ T Cells CD45+ CD4+ CD8- Lag3+ CD4+ Lag3- CD45+ CD4+ CD8+ Lag3- CD45+ CD4+ CD8+ Lag3- CD45+ CD3+ CD4+ CD8+ Lag3- CD8+ Lag3- CD45+ CD3+ CD4+ CD8- Lag3- CD45+ CD3+ CD4+ CD8+ Lag3- CD45+ CD3+ CD4+ CD8+ Lag3- CD4+ Central Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ CB8+ Lag3- CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector CD45+ CD3+ CD4+ CD8- CD45RA+ CR7- CD4+ Effector CD45+ CD3+ CD4+ CD8- CD45RA+ CR7- CD4+ CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CR7- CD4+ Naive CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CR7- CD4+ CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naive CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naive CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD7- CD4+ Naive CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD7- CD8+ Naive CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD8+ Naive HLA-D		Treg CD45+ CD4+ CD25+ FoxP3high	CD45+ CD4+ CD25+ FoxP3high
CD45+ CD4+ CD127low CD45+ CD4+ CD127low Treg CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low FoxP3+ CD25+ Th17 CD45+ CD4+ CD127low FoxP3+ CD4+ T Cells CD45+ CD4+ CD127low FoxP3+ CD25+ CD4+ T Cells CD45+ CD3+ CD4+ CD8+ CD4+ Lag3+ CD45+ CD3+ CD4+ CD8+ CD4+ Lag3- CD45+ CD3+ CD4+ CD8+ Lag3+ CD4+ Lag3- CD45+ CD3+ CD4+ CD8+ Lag3+ CD4+ Central Memory CD45+ CD3+ CD4+ CD8+ Lag3+ CD4+ Central Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD7+ CD4+ CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD3+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD3+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD7- CD4+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD38+		CD45+ CD4+ CD25+	CD45+ CD4+ CD25+
Treg CD45+ CD4+ CD127low FoxP3+ CD45+ CD4+ CD127low FoxP3+ CD25+ Th17 CD45+ CD4+ RC191+ CD4+ T Cells CD45+ CD3+ CD4+ CD8- CD8+ T Cells CD45+ CD3+ CD4- CD8+ CD4+ Lag3+ CD45+ CD3+ CD4+ CD8- Lag3+ CD4+ Lag3- CD45+ CD3+ CD4+ CD8- Lag3- CD8+ Lag3- CD45+ CD3+ CD4- CD8+ Lag3- CD8+ Lag3- CD45+ CD3+ CD4- CD8+ Lag3- CD4+ Naive CD45+ CD3+ CD4- CD8- CD45RA+ CCR7- CD4+ Naive CD45+ CD3+ CD4- CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naive CD59+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naive CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naive CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naive CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naive CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+ CD4+ Naive HLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD7- CD8+ Naive HLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ CD38+	Cells		CD45+ CD4+ CD39+
Thi? CD45+CD4+ROTgt+ CD4 T Cells CD45+CD3+CD4+CD8- CD8+T Cells CD45+CD3+CD4+CD8- CD4+Lag3+ CD45+CD3+CD4+CD8-Lag3+ CD4+Lag3- CD45+CD3+CD4+CD8-Lag3+ CD4+Lag3- CD45+CD3+CD4+CD8-Lag3- CD4+Lag3- CD45+CD3+CD4+CD8-Lag3- CD4+Lag3- CD45+CD3+CD4+CD8-Lag3- CD4+Central Memory CD45+CD3+CD4+CD8+Lag3- CD4+Central Memory CD45+CD3+CD4+CD8-LAg3- CD4+Effector Memory CD45+CD3+CD4+CD8-CD45RA+CCR7- CD4+Effector Memory CD45+CD3+CD4+CD8-CD45RA+CCR7- CD4+Effector CD45+CD3+CD4+CD8-CD45RA+CCR7- CD4+Naive CD69+ CD45+CD3+CD4+CD8-CD45RA+CC87- CD4+Naive CD69+ CD45+CD3+CD4+CD8-CD45RA+CD69+ CD4+Naive CD69+ CD45+CD3+CD4+CD8-CD45RA+CD38+ CD4+Naive CD38+ CD45+CD3+CD4+CD8-CD45RA+CC38+ CD4+Naive CD38+ CD45+CD3+CD4+CD8-CD45RA+CC38+ CD4+Naive CD38+ CD45+CD3+CD4+CD8-CD45RA+CC38+ CD4+Naive CD38+ CD45+CD3+CD4+CD8-CD45RA+CC38+ CD4+Naive CD38+ CD45+CD3+CD4-CD8+CD45RA+CC7- CD8+CD38+CT CD45+CD3+CD4-CD8+CD45RA+CC7- <td></td> <td></td> <td></td>			
CD4+ T Cells CD45+ CD3+ CD4+ CD8- CD8+ T Cells CD45+ CD3+ CD4+ CD8+ CD4+ Lag3+ CD45+ CD3+ CD4+ CD8- Lag3+ CD4+ Lag3- CD45+ CD3+ CD4+ CD8- Lag3- CD8+ Lag3- CD45+ CD3+ CD4+ CD8- Lag3- CD8+ Lag3- CD45+ CD3+ CD4- CD8+ Lag3- CD4+ Central Memory CD45+ CD3+ CD4+ CD8- Lag3- CD4+ Central Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naive CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naive CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CC87- CD4+ Naive CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naive CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD8+ CD4+ Naive CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD8+ Naive CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naive CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naive CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naive CD59+ </td <td></td> <td></td> <td></td>			
CD8+ T Cells CD45+ CD3+ CD4- CD8+ CD4+ Lag3+ CD45+ CD3+ CD4+ CD8+ Lag3+ CD4+ Lag3- CD45+ CD3+ CD4+ CD8- Lag3- CD8+ Lag3- CD45+ CD3+ CD4+ CD8+ Lag3+ CD8+ Lag3- CD45+ CD3+ CD4+ CD8+ Lag3- CD4+ Central Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD8+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+ CD4+ Naïve HLA-DR+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD8+ Naïve CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve			
CD4+ Lag3+ CD45+ CD3+ CD4+ CD8- Lag3+ CD4+ Lag3- CD45+ CD3+ CD4+ CD8+ Lag3- CD8+ Lag3- CD45+ CD3+ CD4+ CD8+ Lag3- CD8+ Lag3- CD45+ CD3+ CD4+ CD8+ Lag3- CD4+ Central Memory CD45+ CD3+ CD4+ CD8+ Lag3- CD4+ Central Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naïve MLA-DR+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD7+ CD8+ Naïve MLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Effector Memory CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-			
CD4+ Lag3- CD45+ CD3+ CD4+ CD8- Lag3- CD8+ Lag3- CD45+ CD3+ CD4+ CD8+ CD3+ CD4- CD8+ Lag3- CD4+ Central Memory CD45+ CD3+ CD4+ CD8+ CD45 RA+ CCR7- CD4+ Naïve CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector CD45+ CD3+ CD4+ CD8- CD69+ CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD69+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD8+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD3+ CD4+ Naïve HLA-DR+ CD45+ CD3+ CD4+ CD8- CD45RA+ LDA-DR+ CD4+ Naïve HLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ CB16ctor CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Effector Memory CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- <td></td> <td></td> <td></td>			
CD8+ Lag3+ CD45+ CD3+ CD4- CD8+ Lag3+ CD8+ Lag3- CD45+ CD3+ CD4- CD8+ CD3+ CD4- CD8+ Lag3- CD4+ Central Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD7+ CD4+ Naïve HLA-DR+ CD45+ CD3+ CD4+ CD8+ CD45RA+ CCR7- CD8+ Naïve CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Rifector CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Rifector CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Rifector CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Rifector CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR			
CD8+ Lag3- CD45+ CD3+ CD4- CD8+ Lag3- CD4+ Central Memory CD45+ CD3+ CD4+ CD8+ CD45 CD4+ CD8- CD4+ Naïve CD45+ CD3+ CD4+ CD8- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD4+ Effector CD45+ CD3+ CD4+ CD8- CD4+ CD69+ CD45+ CD3+ CD4+ CD8- CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD4+ Naïve HLA-DR+ CD45+ CD3+ CD4+ CD8- CD8+ Naïve CD45+ CD3+ CD4- CD8+ CD8+ Naïve CD69+ CD45+ CD3+			-
CD4+ Central Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Effector CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ LC38+ CD4+ Naïve HLA-DR+ CD45+ CD3+ CD4+ CD8- CD45RA+ HLA-DR+ CD8+ CD3+ CD4+ CD8+ CD45RA+ CCR7- CD8+ CD3+ CD4+ CD8+ CD45RA+ CCR7- CD8+ L6ffector CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- <td></td> <td></td> <td>-</td>			-
CD4+ NaïveCD45+ CD3+ CD4+ CD8- CD45RA+ CCR7+CD4+ Effector MemoryCD45+ CD3+ CD4+ CD8- CD45RA- CCR7-CD4+ EffectorCD45+ CD3+ CD4+ CD8- CD45RA+ CCR7-CD4+ CD69+CD45+ CD3+ CD4+ CD8- CD69+CD4+ Naïve CD69+CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+CD4+ Naïve CD38+CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+CD4+ Naïve CD38+CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+CD4+ Naïve CD38+CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+CD4+ Naïve HLA-DR+CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+CD4+ Naïve HLA-DR+CD45+ CD3+ CD4- CD8- CD45RA+ CCR7-CD8+ CB8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD3+ CD4+ CD3+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD3+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD3+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD3+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Naïve CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Naïve CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ Naïve CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+CD4+ Ratio of Lag3+/Lag3-Manually calculate valueCD4+ Ratio of Saive / Central MemoryManually			
CD4+ Effector Memory CD45+ CD3+ CD4+ CD8- CD45RA- CCR7- CD4+ Effector CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CCR7- CD4+ Naïve CD69+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+ CD4+ Naïve CD38+ CD45+ CD3+ CD4+ CD8- CD45RA+ LD38+ CD4+ Naïve LA-DR+ CD45+ CD3+ CD4+ CD8- CD45RA+ LLA-DR+ CD8+ Central Memory CD45+ CD3+ CD4+ CD8- CD45RA+ LLA-DR+ CD8+ Central Memory CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Effector CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Effector CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+ CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+ CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD8+ CD8+ Naïve CD38+ CD45+ C			
CD4+ EffectorCD45+ CD3+ CD4+ CD8- CD45RA+ CCR7-CD4+ CD69+CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+CD4+ Naïve CD69+CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+CD4+ Naïve CD38+CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+CD4+ Naïve CD38+CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+CD4+ Naïve CD38+CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+CD4+ Naïve HLA-DR+CD45+ CD3+ CD4+ CD8- CD45RA+ HLA-DR+CD8+ Central MemoryCD45+ CD3+ CD4+ CD8- CD45RA+ CCR7-CD8+ NaïveCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Naïve CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Naïve CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Naïve CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD8+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+CD8+ Naïve HLA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+CD8+ Naïve HLA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+CD8+ Naïve HLA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+CD8+ Naïve HLA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+CD8+ Naïve MLA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+CD4+ Ratio of Lag3+/Lag3-Manually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate v			
CD4+ Naïve CD69+CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+CD4+ CD38+CD45+ CD3+ CD4+ CD8- CD38+CD4+ Naïve CD38+CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+CD4+ Naïve CD38+CD45+ CD3+ CD4+ CD8- NaïveCD4+ Naïve HLA-DR+CD45+ CD3+ CD4+ CD8- CD45RA+ CD7-CD8+ Cartral MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CC7-CD8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CC7-CD8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CC7-CD8+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CC7-CD8+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CC7-CD8+ CD3+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CC7-CD8+ CD3+CD45+ CD3+ CD4- CD8+ CD45RA+ CC7-CD8+ Naïve CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CC7-CD8+ Naïve CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+CD8+ Naïve HLA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+CD4+ Ratio of Lag3+/Lag3-Manually calculate valueCD4+ Ratio of Lag3+/Lag3-Manually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate valueCD4+ Ratio of Naïve / Central MemoryMan			
CD4+ CD38+CD45+ CD3+ CD4+ CD8- CD38+CD4+ Naïve CD38+CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+CD4+ HLA-DR+CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+CD4+ Naïve HLA-DR+CD45+ CD3+ CD4+ CD8- CD45RA+ HLA-DR+CD8+ Central MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ EffectorCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ EffectorCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Naïve CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD8+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD8+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD8+CD8+ Naïve HLA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+CD4+ Naïve HLA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+CD4+ Naïvo of Lag3+/Lag3-Manually calculate valueCD4+ Ratio of Lag3+/Lag3-Manually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate value <td></td> <td>CD4+ CD69+</td> <td>CD45+ CD3+ CD4+ CD8- CD69+</td>		CD4+ CD69+	CD45+ CD3+ CD4+ CD8- CD69+
CD4+ Naïve CD38+CD45+ CD3+ CD4+ CD8- CD45RA+ CD38+CD4+ HIA-DR+CD45+ CD3+ CD4+ CD8- HIA-DR+CD4+ Naïve HIA-DR+CD45+ CD3+ CD4+ CD8- CD45RA+ HIA-DR+CD8+ Central MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Central MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ KaïveCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CB69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Naïve CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD8+CD8+ Naïve HIA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ CD8+CD8+ Naïve HIA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ CD8+CD8+ Naïve HIA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ HIA-DR+CD4+ Ratio of Lag3+/Lag3-Manually calculate valueCD4+ Ratio of Naïve//EffectorManually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate valueCD4+ Ratio of Naïve / EffectorManually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate valueCD4+ Ratio of Naïve / Effector MemoryManually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate valueCD4+ Ratio of Naïve / Effector <t< td=""><td></td><td>CD4+ Naïve CD69+</td><td>CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+</td></t<>		CD4+ Naïve CD69+	CD45+ CD3+ CD4+ CD8- CD45RA+ CD69+
CD4+ HLA-DR+CD45+ CD3+ CD4+ CD8- HLA-DR+CD4+ Naïve HLA-DR+CD45+ CD3+ CD4+ CD8- CD45RA+ HLA-DR+CD8+ CD8+ CD41 CD8- CD45RA+CD45+ CD3+ CD4+ CD8+ CD45RA+ CCR7-CD8+ NaïveCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD8+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD8+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Naïve CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CC69+CD8+ Naïve CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD8+CD8+ Naïve HLA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+CD8+ Naïve HLA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+CD4+ Ratio of Lag3+/Lag3-Manually calculate valueCD4+ Ratio of Lag3+/Lag3-Manually calculate valueCD4+ Ratio of Saïve / Central MemoryManually calculate valueCD4+ Ratio of Saïve / Central MemoryManually calculate valueCD4+ Ratio of Central MemoryManually calculate value </td <td></td> <td>CD4+ CD38+</td> <td>CD45+ CD3+ CD4+ CD8- CD38+</td>		CD4+ CD38+	CD45+ CD3+ CD4+ CD8- CD38+
CD4+ Naïve HLA-DR+CD45+ CD3+ CD4+ CD8- CD45RA+ HLA-DR+CD8+ Central MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ NaïveCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ Effector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7-CD8+ CD3+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ CD3+ CD4- CD8+ CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+CD8+ Naïve HLA-DR+CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+CD8+ Ratio of Lag3+/Lag3-Manually calculate valueCD4+ Ratio of Lag3+/Lag3-Manually calculate valueCD4+ Ratio of Naïve / EffectorManually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate valueCD4+ Ratio of Naïve / Central MemoryManually calculate valueCD4+ Ratio of Naïve / EffectorManually calculate valueCD4+ Ratio of Naïve / Effector<		CD4+ Naïve CD38+	
CD8+ Central MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ KaiveT CellsCD8+ Kifector MemoryCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ EffectorCD8+ EffectorCD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ CD69+CD8+ CD69+CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ CD3+ CD4- CD8+ CD45RA+ CD69+ CD8+ CD3+ CD4- CD8+ CD45RA+ CD69+ CD8+ CD3+ CD4- CD8+ CD45RA+ CD69+ CD8+ Naïve CD38+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+ CD8+ Naïve CD38+CD8+ Naïve CD38+CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+ CD4+ CD3+ CD4- CD8+ CD45RA+ CD38+ CD4+ CD3+ CD4- CD8+ CD45RA+ CD38+ CD4+ Ratio of Lag3+/Lag3- CD4+ Ratio of Lag3+/Lag3- CD4+ Ratio of Naïve / EffectorCD4+ Ratio of Naïve / Central MemoryManually calculate value CD4+ Ratio of Naïve / Central Memory CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Central Memory / Manually calculate value CD4+ Ratio of Central Memory / Manually calculate value CD4+ Ratio of Central Memory / Manually calculate value <td></td> <td></td> <td></td>			
T Cells CD8+ Naïve CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7+ CD8+ Effector Memory CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Effector CD8+ CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD69+ CD8+ Naïve CD69+ CD8+ CD3+CD4- CD8+ CD45RA+ CD69+ CD8+ CD3+CD4- CD8+ CD45RA+ CD69+ CD8+ CD3+CD4- CD8+ CD45RA+ CD3+ CD4+ CD3+CD4- CD8+ CD45RA+ CD3+ CD8+ Naïve CD38+ CD8+ Naïve CD38+ CD8+ Naïve AD3+ CD8+ CD8+ Naïv			
CBIS CD8+ Effector Memory CD45+ CD3+ CD4- CD8+ CD45RA- CCR7- CD8+ Effector CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ Naïve CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+ CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+ CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+ CD8+ HLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+ CD8+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Naïve/Effector Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Manually calculate value		· · ·	
CD8+ Effector CD45+ CD3+ CD4- CD8+ CD45RA+ CCR7- CD8+ CD69+ CD45+ CD3+ CD4- CD8+ CD69+ CD8+ Naïve CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+ CD8+ CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+ CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+ CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+ CD8+ HLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+ CD8+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Central Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Effector Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD8+ Ratio of Central Memory / Effector	T Cells		
CD8+ CD69+ CD45+ CD3+ CD4- CD8+ CD69+ CD8+ Naïve CD69+ CD45+ CD3+ CD4- CD8+ CD45+ CD69+ CD8+ CD38+ CD45+ CD3+ CD4- CD8+ CD45+ CD3+ CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+ CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+ CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+ CD8+ Naïve HLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ HA-DR+ CD4+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Central Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Manually calculate value CD4+ Ratio of Central Memory / Effector Manually calculate value CD4+ Ratio of Central Memo			
CD8+ Naïve CD69+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD69+ CD8+ CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD8+ HLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+ CD8+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Naïve/Effector Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Stefector / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Central Memory / Effector Manually calculate value CD4+ Ratio of Central Memory / Effector Manually calculate value			
CD8+ CD38+ CD45+ CD3+ CD4- CD8+ CD38+ CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+ CD8+ HLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+ CD8+ Naïve HLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+ CD4+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Naïve/Effector Manually calculate value CD4+ Ratio of Central Memory Manually calculate value CD4+ Ratio of Naïve/Central Memory Manually calculate value CD4+ Ratio of Naïve/Ceffector Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value <td></td> <td></td> <td></td>			
CD8+ Naïve CD38+ CD45+ CD3+ CD4- CD8+ CD45RA+ CD38+ CD8+ HLA-DR+ CD45+ CD3+ CD4- CD8+ HLA-DR+ CD8+ Naïve HLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+ CD4+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Naïve/Effector Manually calculate value CD4+ Ratio of Central Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Effector Memory Manually calculate value CD8+ Ratio of Naïve / Effector Manually calculate value CD8+ Ratio of Central Memory / Effector Manually calculate value CD8+ Ratio of Central Memory / Effector Manually calculate value CD8+ Ratio of Central Memory / Effector Manually calculate value			
CD8+ HLA-DR+ CD45+ CD3+ CD4- CD8+ HLA-DR+ CD8+ Naïve HLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+ CD4+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Naïve/Effector Manually calculate value CD4+ Ratio of Naïve/Central Memory Manually calculate value CD4+ Ratio of Naïve/Ffector Memory Manually calculate value CD4+ Ratio of Naïve/Ffector Manually calculate value CD4+ Ratio of Naïve/Central Memory Manually calculate value CD4+ Ratio of Naïve/Central Memory Manually calculate value CD4+ Ratio of Naïve/Central Memory Manually calculate value CD8+ Ratio of Naïve/Ffector Manually calculate value CD8+ Ratio of Central Memory / Effector Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value			
CD8+ Naïve HLA-DR+ CD45+ CD3+ CD4- CD8+ CD45RA+ HLA-DR+ CD4+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Naïve/Effector Manually calculate value CD4+ Ratio of Central Memory Manually calculate value CD4+ Ratio of Naïve/Central Memory Manually calculate value CD4+ Ratio of Naïve/Central Memory Manually calculate value CD4+ Ratio of Naïve/Central Memory Manually calculate value CD4+ Ratio of Naïve/Ffector Manually calculate value CD4+ Ratio of Contral Memory Manually calculate value CD4+ Ratio of Contral Memory / Effector Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value			
CD4+ Ratio of Lag3+/Lag3- Manually calculate value CD8+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Naïve/Effector Manually calculate value CD4+ Ratio of Central Memory / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Ffector / Effector Memory Manually calculate value CD4+ Ratio of Ffector / Effector Memory Manually calculate value CD8+ Ratio of Naïve/Effector Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value			
CD8+ Ratio of Lag3+/Lag3- Manually calculate value CD4+ Ratio of Naïve/Effector Manually calculate value CD4+ Ratio of Central Memory / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Static / Effector Memory Manually calculate value CD8+ Ratio of Naïve/Effector Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value			
CD4+ Ratio of Naïve/Effector Manually calculate value CD4+ Ratio of Central Memory / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Naïve/Effector Memory Manually calculate value CD8+ Ratio of Naïve/Effector Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value			
CD4+ Ratio of Central Memory / Effector Memory Manually calculate value CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Effector / Effector Memory Manually calculate value CD8+ Ratio of Naïve/Effector Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value			
CD4+ Ratio of Naïve / Central Memory Manually calculate value CD4+ Ratio of Effector / Effector Memory Manually calculate value CD8+ Ratio of Naïve/Effector Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value			
CD4+ Ratio of Effector / Effector Memory Manually calculate value CD8+ Ratio of Naïve/Effector Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value			
CD8+ Ratio of Naïve/Effector Manually calculate value CD8+ Ratio of Central Memory / Effector Memory Manually calculate value			
		CD8+ Ratio of Naïve/Effector	
CD8+ Ratio of Naïve / Central Memory Manually calculate value			
CD8+ Ratio of Effector / Effector Memory Manually calculate value		· · · · ·	· · · · · · · · · · · · · · · · · · ·

Table S4: Flow Cytometry Panels

Materials and Methods:

Analysis of the exploratory endpoints was undertaken at Cytel Inc (Waltham, MA). Biomarker venous sampling (e.g. from the patient) was performed during screen A, screen B, pre-dose baseline and days 1, 3, 7, 14, 21, and 28 visits. A ratio of concentrations from post treatment start at each timepoint to baseline, (value/baseline) was generated. Ratios were then log-transformed to approach a more normal distribution. Cmax was defined as the maximum ratio of value/baseline observed over the sampling duration.

The area under the curve (AUC) was generated using the linear trapezoid rule between baseline (Day -1) and each day after the end of treatment, starting with Day 1 (one day after the end of treatment). AUC designations were marked with the number of days after the end of treatment to which the AUC corresponds (i.e., AUC3 was the designation of the AUC from baseline to three days after the end of treatment). Time-weighted averages were then generated by dividing each AUC by the interval of time represented (2 days for AUC1, 4 days for AUC3, etc). For TWAs, the standard effect sizes were the mean difference between IP-treated and Sham treated TWAs divided by the pooled standard deviation.

Standardization of Biomarker Effects:

Because of differences in scale, Z scores from discrete biomarkers were used to standardize data from the desired biomarkers prior to pooling the data into single aggregate endpoints. Z-scores were obtained for each discrete parameter and timepoint endpoint as follows:

Z score = x - mean (across all subjects) / sd across all subjects), eq.1

where x was the observed value, mean was the mean of observed values across all subjects, and sd was the standard deviation of observed values across all subjects.

Next, effect sizes were computed as:

Effect Size = meanTRT -meanCNT / pooled sd, eq. 2

where meanTRT and meanCNT are the mean values for the treated group and the control groups, respectively; and where sd was the pooled standard deviation. The treatment effect directions for each biomarker were assigned such that a positive effect size indicated a positive change was observed and a negative effect size indicated a negative change.

Subsequently, the Z scores are multiplied by -1 or +1 according to the biological effect direction. Thus, if a negative effect is believed to indicate efficacy, negative effects will be converted into positive Z-scores and positive effects into negative Z-scores. Because of this standardization, biomarkers with anticipated changes in opposing directions may have been pooled appropriately, where increasing positive Z-scores indicate increases in desired biological activity and negative Z-scores indicate less desired biological activity.

Identification of Contending Biomarkers:

Absolute values of effect sizes were generated for each biomarker. A biomarker was considered a contender if the absolute value for the effect size was greater than or equal to one for both ratios of log-transformed values over baseline and TWA.

Composite Generation:

For each subject, a Composite Z score was computed. Composite Z scores were the average Z score across markers within a composite group (defined in section 2.3 above), for each subject and timepoint. Groupings were created based on both the magnitude of effect size (as shown in the first method) as well as the scientific plausibility of each combination. Although subjective, this approach was hoped to circumvent the likelihood of erroneous groupings due to small sample sizes, as well as to exclude the possibility of focusing on biomarkers unlikely to translate into clinical relevance.

Once composite scores were generated for each subject, composite endpoints were generated for each treatment group by averaging the individual composite Z-scores in each group. Finally, composite endpoints were used to generate composite effect sizes, calculated as the difference between treated and control composite endpoints divided by the pooled standard deviation.