

Supplemental Table 1a. Flowcytometry Ab panels for staining of PBMC samples.

Monocyte/macrophage /MDSC panel	Inhibitory/memory panel	DC panel	Regulatory T cell panel
CD56-PerCPCy5.5 (Biolegend, HCD56)	CD3-V450 (BD, UCHT1)	CD3-FITC (BD, SK7)	CD3-V500 (BD, UCHT1)
CD3-V450 (BD, UCHT1)	CD4-PE CF594 (BD, RPA-T4)	CD19-FITC (BD, 4G7)	CD4-AF700 (BD, RPA-T4)
CD14-AF700 (BD, M5E2)	CD8-APC Cy7 (BD, SK1)	CD20-FITC (BD, L27)	CD127-BV650 (Biolegend, A019D5)
CD15-PE CF594 (BD, W6D3)	CD62L-AF700 (Biolegend, DREG-56)	CD56-FITC (BD, NCAM 16.2)	CD25-PE Cy7 (BD, 2A3)
CD206-APC Cy7 (Biolegend 15-2)	CD28-FITC (BD, CD28.2)	CD163-PerCP Cy5.5 (BD, GHI/61)	CD45RA-APCH7 (BD, HI100)
CD1a-FITC (BD, HI149)	CTLA4-PE Cy5 (BD, BNI3)	CLEC9A-PE (Biolegend, 8F9)	CD8-BB700 (BD, HIT8a)
CD163-APC (R&D, 215927)	PD1-PE Cy7 (Biolegend, EH12.2H7)	CD16-PE CF594 (BD, 3G8)	*FoxP3-PE CF594 (BD, 259D/C7)
CD11b-PE (BD, D12)	TIM3-BV605 (Biolegend, F38-2E2)	CD14-PE Cy7 (BD, M5E2)	*CTLA4-BV421 (BD, BNI3)
CD19-BV605 (BD, SJ25C1)	CD45RO-PE (BD, UCHL1)	HLA-DR-V500 (BD, L243)	*Ki67-FITC (eBio, 20Raj1)
CD33-PE Cy7 (BD P67.6)		CD11c-BV650 (BD, B-ly6)	*Helios-APC (Biolegend, 22F6)
HLA-DR-V500 (BD, L243)		CD141-APC (Miltenyi, AD5 14H12)	*Tbet-PE (eBio, 4B10)
CD11c-BV650 (BD, B-ly6)		CD32B-AF700 (R&D, 190723)	
		CD1c-BV421 (Biolegend, L161)	
		CD36-APC Cy7 (Biolegend, 5-271)	
		CD123-BV605 (BD, 9F5)	

For each Ab the conjugated fluorochrome and between brackets the company and clone name are given.

*indicate Ab that were used for staining of intracellular markers

Supplemental Table 1b. Flowcytometry Ab panels for staining of ACT product.

Inhibitory T cells panel	Homing panel	Memory T cell panel	Regulatory T cell panel
CD3-V450 (BD, UCHT1)	CD3-V450 (BD, UCHT1)	CD3-V450 (BD, UCHT1)	CD3-V500 (BD, UCHT1)
CD4-PE CF594 (BD, RPA-T4)	CD4-PE CF594 (BD, RPA-T4)	CD4-PE CF594 (BD, RPA-T4)	CD4-AF700 (BD, RPA-T4)
CD8-APC Cy7 (BD, SK1)	CD8-APC Cy7 (BD, SK1)	CD8-APC Cy7 (BD, SK1)	CD127-BV650 (Biolegend, A019D5)
CD56-AF700 (BD, B159)	CD25-FITC (BD, 2A3)	CD25-BV605 (BD, 2A3)	CD25-PE Cy7 (BD, 2A3)
CD94-FITC (R&D, 131412)	CD45RA-PerCP Cy5.5 (Biolegend, HI100)	CD27-HV500 (BD, M-T271)	CD45RA-APCH7 (BD, HI100)
CTLA4-PE Cy5 (BD, BNI3)	CD45RO-PE Cy7 (BD, UCHL1)	CD28-FITC (BD, CD28.2)	CD8-BB700 (BD, HIT8a)
PD1-PE Cy7 (Biolegend, EH12.2H7)	CXCR3-AF700 (BD, 1G5)	CD45RA-PerCP Cy5.5 (Biolegend, HI100)	*FoxP3-PE CF594 (BD, 259D/C7)
TIM3-BV605 (Biolegend, F38-2E2)	CCR4-PE (BD, 1G1)	CD45RO-PE (BD, UCHL1)	*CTLA4-BV421 (BD, BNI3)
NKG2a-PE (Beckman Coulter, Z199).	CCR6 (Biolegend, G034E3)	CD62L-AF700 (Biolegend, DREG-56)	*Ki67-FITC (eBio, 20Raj1)
	CCR10-APC (Biolegend, 6588-5)	Fas-PE Cy7 (Biolegend, DX2)	*Helios-APC (Biolegend, 22F6)
		CCR7-AF647 (BD, 3D12)	*Tbet-PE (eBio, 4B10)

For each Ab the conjugated fluorochrome and between brackets the company and clone name are given.

*indicate Ab that were used for staining of intracellular markers