

Supplementary Tables S1

S1.1 List of monoclonal antibodies

Antibody	Clone	Company	Isotype control
CD25-PE	2A3	BD Biosciences, San Jose, USA	Mouse IgG1 k chain
CD45RA-ECD	2H4	Immunotech, Marseille, France	Mouse IgG1
TCR $\alpha\beta$ -Percp	WT31	BD Biosciences (Custom), San Jose, USA	Mouse IgG1
CCR7-PECy7	3D12	BD Pharmingen, San Jose, USA	Rat IgG2a, k
CD127-APC	R34.34	Beckman Coulter (Custom), Miami, USA	Mouse IgG1
CD107a-APCAlexa 700	H4A3	Beckman Coulter (Custom), Miami, USA	Mouse IgG1
CD8 α -APC Cy7	SFC121Thy2D3(T8)	Beckman Coulter (Custom), Miami, USA	Mouse IgG1
CD4-Pacific blue	SFC1 12T4D11	Beckman Coulter (Custom), Miami, USA	Mouse IgG1
CD27 unconjugated	1A4CD27	Beckman Coulter (Custom), Miami, USA	Mouse IgG1
CD28-Amcyan green	CD28.2	BD Biosciences (Custom), San Jose, USA	Mouse IgG1
CD8 β -FITC	2ST8.5H7	Beckman Coulter (Custom), Miami, USA	Mouse IgG2a
CD16- PE	3G8	BD Pharmingen, San Jose, USA	Mouse IgG1 k chain
CD56- PE	B159	BD Pharmingen, San Jose, USA	Mouse IgG1 k chain
TCR $\gamma\delta$ -PECy5.5	IMMU510	Beckman Coulter (Custom), Miami, USA	Mouse IgG1
FoxP3- Alexa 488	259D	Biologend, San Diego, USA	Mouse IgG1,k
CD3-ECD	UCHT1	Immunotech, Marseille, France	Mouse IgG1
CD19-FITC	SJ25C1	BD Biosciences, San Jose, USA	Mouse IgG1 k chain
CD14-PE Cy5.5	61D3	Abcam, Cambridge, UK	Mouse IgG1
p-STAT5- Alexa 488	47	BD Biosciences, San Jose, USA	Mouse IgG1
CD4-PECy5	13B8.2	Immunotech, Marseille, France	Mouse IgG1
CD8-PECy7	T8 clone	Beckman Coulter, Fullerton, USA	Mouse IgG1
CD19-PE	SJ25C1	BD Biosciences, San Jose, USA	Mouse IgG1 k chain

S1.2 Combination of monoclonal antibodies for immune cell marker analysis in flow cytometry

Panel 1	Panel 2	Panel 3	Panel 4
CD19-FITC	CD8 β - FITC	Foxp3-Alexa 488	pSTAT5 - Alexa 488
CD25-PE	CD16/56 - PE	CD25-PE	CD19 - PE
CD45RA -ECD	CD45RA -ECD	CD3- ECD	CD3 - ECD
TCR $\alpha\beta$ -PerCP	TCR $\alpha\beta$ -PerCP	CD127- APC	CD4 - PECy5
CD14 -PE Cy5.5	TCR $\gamma\delta$ -PE Cy5.5	CD8 α -APC Cy7	CD8 α - PECy7
CCR7- PECy7	CCR7- PECy7	CD4- Pacific blue	
CD127- APC	CD127- APC	CD27 - Pacific Orange	
CD107a- APC Alexa700	CD107a- APC Alexa700	CD28- Amcyan green	
CD8 α - APC Cy7	CD8 α - APC Cy7		
CD4- Pacific blue	CD4- Pacific blue		
CD27 - Pacific Orange	CD27 - Pacific Orange		
CD28- Amcyan green	CD28- Amcyan green		

S1.3 187 T-cell subsets analyzed by using High content Immune flow-cytometry

Panel 1 immune phenotypes analyzed		Panel 2	
TCR $\alpha\beta$ +	TCR $\alpha\beta$ +CD4+CD8+CD127+	TCR $\alpha\beta$ +	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD27-CD28-
TCR $\alpha\beta$ +CD4+	TCR $\alpha\beta$ +CD4-CD8-CD25+	TCR $\alpha\beta$ -	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7+CD27+CD28+
TCR $\alpha\beta$ +CD8+	TCR $\alpha\beta$ +CD4-CD8- CD45RA+CCR7+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7+CD27+CD28-
TCR $\alpha\beta$ +CD4+CD25high+	TCR $\alpha\beta$ +CD4-CD8-CD45RA-CCR7+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7+CD27-CD28+
TCR $\alpha\beta$ +CD4+CD25int+	TCR $\alpha\beta$ +CD4-CD8-CD45RA-CCR7-	TCR $\alpha\beta$ -CD16+CD56+ (NK cells)	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7+CD27-CD28-
TCR $\alpha\beta$ +CD4+CD127	TCR $\alpha\beta$ +CD4-CD8-CD45RA+CCR7-	TCR $\alpha\beta$ +CD16+CD56+ (NK-T cells)	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7+CD27+CD28+
TCR $\alpha\beta$ +CD8+CD127+	TCR $\alpha\beta$ +CD4-CD8- CD45RA+CCR7+CD127+	TCR $\gamma\delta$ +	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7+CD27+CD28-
TCR $\alpha\beta$ +CD4+CD25high+127+	TCR $\alpha\beta$ +CD4-CD8-CD45RA-CCR7+CD127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7+CD27-CD28+
TCR $\alpha\beta$ +CD4+CD25int+127+	TCR $\alpha\beta$ +CD4-CD8-CD45RA-CCR7-CD127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7+CD27-CD28-
TCR $\alpha\beta$ +CD4+CD25neg+127+	TCR $\alpha\beta$ +CD4-CD8-CD45RA+CCR7-CD127+	TCR $\alpha\beta$ -CD16+CD56+127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7+CD27+CD28+
TCR $\alpha\beta$ +CD4+CD25high+CD45RA+CCR7+127+	TCR $\alpha\beta$ +CD4-CD8-CD107a+	TCR $\alpha\beta$ +CD16+CD56+127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7+CD27+CD28+
TCR $\alpha\beta$ +CD4+CD25int+CD45RA+CCR7+127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD4+	TCR $\gamma\delta$ +127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7+CD27-CD28+
TCR $\alpha\beta$ +CD4+CD25neg+CD45RA+CCR7+127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD4+CD127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7+CD27-CD28-
TCR $\alpha\beta$ +CD4+CD25high+CD45RA-CCR7+127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD4-CD127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA-CCR7+CD27+CD28+
TCR $\alpha\beta$ +CD4+CD25int+CD45RA-CCR7+127+	CD14+	TCR $\gamma\delta$ +CD45RA+CCR7+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA-CCR7+CD27+CD28-
TCR $\alpha\beta$ +CD4+CD25neg+CD45RA-CCR7+127+	CD14+CD127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA-CCR7+CD27-CD28+
TCR $\alpha\beta$ +CD4+CD25high+CD45RA-CCR7-127+	CD14+CD25+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA-CCR7+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7+CD27-CD28-
TCR $\alpha\beta$ +CD4+CD25int+CD45RA-CCR7-127+	CD19+	TCR $\gamma\delta$ +CD45RA-CCR7+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7-CD27+CD28+
TCR $\alpha\beta$ +CD4+CD25neg+CD45RA-CCR7-127+	CD19+CD127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7-	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7-CD27+CD28-
TCR $\alpha\beta$ +CD4+CD25high+CD45RA+CCR7-127+	CD19+CD25+	TCR $\gamma\delta$ +CD45RA-CCR7-	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7-CD27-CD28-
TCR $\alpha\beta$ +CD4+CD25int+CD45RA+CCR7-127+		TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7-	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7-CD27+CD28+
TCR $\alpha\beta$ +CD4+CD25neg+CD45RA+CCR7-127+		TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7-	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA-CCR7-CD27+CD28-
TCR $\alpha\beta$ +CD4+CD25high+CD107a+		TCR $\gamma\delta$ +CD45RA+CCR7-	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA-CCR7-CD27-CD28+
TCR $\alpha\beta$ +CD4+CD25int+CD107a+		TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7+127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA-CCR7-CD27-CD28-
TCR $\alpha\beta$ +CD4+CD25neg+CD107a+		TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7+127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7-CD27+CD28+
TCR $\alpha\beta$ +CD4+CD25high+CD107a+127+		TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7++127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7-CD27-CD28+
TCR $\alpha\beta$ +CD4+CD25int+CD107a+127+		TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA-CCR7+127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7-CD27-CD28-
TCR $\alpha\beta$ +CD4+CD25neg+CD107a+127+		TCR $\gamma\delta$ +CD45RA-CCR7+127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7-CD27+CD28+
TCR $\alpha\beta$ +CD4-CD8-		TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7-127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7-CD27+CD28-
TCR $\alpha\beta$ +CD4-CD8-CD127+		TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA-CCR7-127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7-CD27+CD28-
TCR $\alpha\beta$ +CD4-CD8-CD127+CD25+		TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA-CCR7-127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7-CD27-CD28+
TCR $\alpha\beta$ +CD4-CD8-CD127-CD25+		TCR $\gamma\delta$ +CD45RA-CCR7-127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7-CD27-CD28-
TCR $\alpha\beta$ +CD4+CD8+		TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7-127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +107a
		TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7-127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +107a
		TCR $\gamma\delta$ +CD45RA+CCR7-127+	TCR $\gamma\delta$ + 107a
		TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD27+CD28+	TCR $\alpha\beta$ -CD16+CD56+CD107a
		TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD27+CD28-	TCR $\alpha\beta$ +CD16+CD56+ CD107a+
		TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD27-CD28+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD107a+127+
		TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD27-CD28-	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD107a+127+
		TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD27+CD28+	TCR $\alpha\beta$ +TCRgd+ 107a+127+
		TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD27+CD28-	TCR $\alpha\beta$ -CD16+CD56+CD107a+127+
		TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD27-CD28+	TCR $\alpha\beta$ +CD16+CD56+CD107a+127+

(Continued on next page for panel 3 and 4)

Panel 3	Panel 4
<p> CD3+ CD3+CD4+CD25high+(parent) CD3+CD4+CD25int+ CD3+CD4+CD25high+Foxp3+ Parent CD3+CD4+CD25high+Foxp3+Total CD3+CD4+CD25int+Foxp3+ CD3+CD4+CD25neg+Foxp3+ CD3+CD4+CD25high+Foxp3+CD127+ CD3+CD4+CD25int+Foxp3+CD127+ CD3+CD4+CD25neg+Foxp3+CD127+ CD3+CD4+CD25high+CD127+ CD3+CD4+CD25int+CD127+ CD3+CD4+CD25neg+CD127+ CD3+CD25high+Foxp3+CD27+CD28+ CD3+CD25high+Foxp3+CD27+CD28- CD3+CD25high+Foxp3+CD27-CD28+ CD3+CD25high+Foxp3+CD27-CD28- CD3+CD25int+Foxp3+CD27+CD28+ CD3+CD25int+Foxp3+CD27+CD28- CD3+CD25int+Foxp3+CD27-CD28+ CD3+CD25int+Foxp3+CD27-CD28- CD3+CD25neg+Foxp3+CD27+CD28+ CD3+CD25neg+Foxp3+CD27+CD28- CD3+CD25neg+Foxp3+CD27-CD28+ CD3+CD25neg+Foxp3+CD27-CD28- CD3+CD25high+CD27+CD28+ CD3+CD25high+CD27+CD28- CD3+CD25high+CD27-CD28+ CD3+CD25high+CD27-CD28- CD3+CD25int+CD27+CD28+ CD3+CD25int+CD27+CD28- CD3+CD25int+CD27-CD28+ CD3+CD25int+CD27-CD28- CD3+CD25neg+CD27+CD28+ CD3+CD25neg+CD27+CD28- CD3+CD25neg+CD27-CD28+ CD3+CD25neg+CD27-CD28- CD3+CD8+CD25+ CD3+CD8+CD25+Foxp3+ CD3+CD8+CD25+Foxp3+CD127+ CD3+CD8+CD25+Foxp3+CD27+CD28+ CD3+CD8+CD25+Foxp3+CD27+CD28- CD3+CD8+CD25+Foxp3+CD27-CD28+ CD3+CD8+CD25+Foxp3+CD27-CD28- </p>	<p> CD3+ CD19+ CD3+CD4+ CD3+CD8+ CD3+CD4+pStat5+ CD3+CD8+pStat5+ CD19+pStat5+ </p>

S1.4 IL-7 receptor density on 59T-cell subsets

Panel 1	Panel 2	Panel 3
TCR $\alpha\beta$ +CD4+CD127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD127+	CD3+CD4+CD25high+Foxp3+CD127+
TCR $\alpha\beta$ +CD8+CD127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD127+	CD3+CD4+CD25int+Foxp3+CD127+
TCR $\alpha\beta$ +CD4+CD25high+127+	TCR $\alpha\beta$ -CD16+CD56+CD127+	CD3+CD4+CD25neg+Foxp3+CD127+
TCR $\alpha\beta$ +CD4+CD25int+127+	TCR $\alpha\beta$ +CD16+CD56+CD127+	CD3+CD4+CD25high+CD127+
TCR $\alpha\beta$ +CD4+CD25neg+127+	TCR $\gamma\delta$ +CD127+	CD3+CD4+CD25int+CD127+
TCR $\alpha\beta$ +CD4+CD25high+CD45RA+CCR7+CD127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7+CD127+	CD3+CD4+CD25neg+CD127+
TCR $\alpha\beta$ +CD4+CD25int+CD45RA+CCR7+CD127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7+CD127+	CD3+CD8+CD25+Foxp3+CD127+
TCR $\alpha\beta$ +CD4+CD25neg+CD45RA+CCR7+CD127+	TCR $\gamma\delta$ +CD45RA+CCR7+CD127+	
TCR $\alpha\beta$ +CD4+CD25high+CD45RA-CCR7+CD127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7+CD127+	
TCR $\alpha\beta$ +CD4+CD25int+CD45RA-CCR7+CD127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA-CCR7+CD127+	
TCR $\alpha\beta$ +CD4+CD25neg+CD45RA-CCR7+CD127+	TCR $\gamma\delta$ +CD45RA-CCR7+CD127+	
TCR $\alpha\beta$ +CD4+CD25high+CD45RA-CCR7-CD127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA-CCR7-CD127+	
TCR $\alpha\beta$ +CD4+CD25int+CD45RA-CCR7-CD127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA-CCR7-CD127+	
TCR $\alpha\beta$ +CD4+CD25neg+CD45RA-CCR7-CD127+	TCR $\gamma\delta$ +CD45RA-CCR7-CD127+	
TCR $\alpha\beta$ +CD4+CD25high+CD45RA+CCR7-CD127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD45RA+CCR7-CD127+	
TCR $\alpha\beta$ +CD4+CD25int+CD45RA+CCR7-CD127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD45RA+CCR7-CD127+	
TCR $\alpha\beta$ +CD4+CD25neg+CD45RA+CCR-CD127+	TCR $\gamma\delta$ +CD45RA+CCR7-CD127+	
TCR $\alpha\beta$ +CD4+CD25high+CD107a+CD127+	TCR $\alpha\beta$ +CD8 $\alpha\beta$ +CD107a+CD127+	
TCR $\alpha\beta$ +CD4+CD25int+CD107a+CD127+	TCR $\alpha\beta$ +CD8 $\alpha\alpha$ +CD107a+CD127+	
TCR $\alpha\beta$ +CD4+CD25neg+CD107a+CD127+	TCR $\gamma\delta$ +CD107a+CD127+	
TCR $\alpha\beta$ +CD8 α +CD4+CD127+	TCR $\alpha\beta$ -CD16+CD56+CD107a+CD127+	
TCR $\alpha\beta$ +CD8 α +CD4-CD127+	TCR $\alpha\beta$ +CD16+CD56+CD107a+CD127+	
TCR $\alpha\beta$ +CD4-CD8-CD127+		
TCR $\alpha\beta$ +CD4+CD8+CD127+		
TCR $\alpha\beta$ +CD4-CD8-CD45RA+CCR7+CD127+		
TCR $\alpha\beta$ +CD4-CD8-CD45RA-CCR7+CD127+		
TCR $\alpha\beta$ +CD4-CD8-CD45RA-CCR7-CD127+		
TCR $\alpha\beta$ +CD4-CD8-CD45RA+CCR7-CD127+		
CD14+CD127		
CD19+CD127		