

Supplemental table 1 Fraction of hematopoietic cells used in this study

Cell population	Abbreviation	Fraction	Source
hematopoietic stem cell and multipotent progenitor	HSC+MPP	lineage- Sca-1+ c-Kit+	bone marrow
common myeloid progenitor	CMP	lineage- Sca-1- c-Kit+ CD34+ FcγRII/III low	bone marrow
granulocyte / monocyte progenitor	GMP	lineage- Sca-1- c-Kit+ CD34+ FcγRII/III high	bone marrow
megakaryocyte / erythrocyte progenitor	MEP	lineage- Sca-1- c-Kit+ CD34- FcγRII/III low	bone marrow
eosinophil progenitor	EoP	lineage- Sca-1- CD34+ c-Kit low IL-5Rα+	bone marrow
basophil progenitor	BaP	lineage- CD34+ c-Kit-/low FcεRIα+	bone marrow
mast cell progenitor (in vitro induced)	MCP	lineage- FcεRIα low c-Kit low	day4 GMP progeny cultured with IL-3 (20ng/ml)
eosinophil	-	lymphoid markers- FcεRIα- Gr-1 low/+ CCR3+	spleen
eosinophil (in vitro induced, for multiplex cytokine analysis)	-	-	day7 EoP progeny cultured with IL-5 (20ng/ml)
basophil	-	lymphoid markers- FcεRIα+ DX5+	spleen
mast cell	-	lymphoid markers- FcεRIα+ c-Kit+	peritoneal cavity
mast cell (in vitro induced, for multiplex cytokine analysis)	-	Gr-1- FcεRIα+ c-Kit+	day14 GMP progeny cultured with IL-3 (20ng/ml)
neutrophil	-	lymphoid markers- FcεRIα- Gr-1+ CCR3-	spleen
monocyte	-	lymphoid markers- FcεRIα- Gr-1 low CCR3-	spleen
conventional dendritic cell	cDC	CD3- CD4- CD8- CD19- NK1.1- B220- CD11c+	spleen
common lymphoid progenitor	CLP	lineage- IL-7Rα+ Sca-1 low c-Kit low	bone marrow
pro-B cell	-	CD3- CD4- CD8- Gr-1- IgM- B220+ CD43+ CD19+	bone marrow
pre-B cell	-	CD3- CD4- CD8- Gr-1- IgM- B220+ CD43- CD19+	bone marrow
double negative thymocyte	DN	CD3- CD4- CD8- CD19- NK1.1- Gr-1-	thymus
double positive thymocyte	DP	CD3- CD4+ CD8+ CD19- NK1.1- Gr-1-	thymus
CD4 single positive thymocyte	CD4 SP	CD3- CD4+ CD8- CD19- NK1.1- Gr-1-	thymus
CD8 single positive thymocyte	CD8 SP	CD3- CD4- CD8+ CD19- NK1.1- Gr-1-	thymus
CD4+ T cell	-	CD3+ CD4+ CD8-	spleen
CD8+ T cell	-	CD3+ CD4- CD8+	spleen
B cell	-	CD3- CD19+	spleen
NK cell	-	CD3- CD19- NK1.1+ Gr-1-	spleen
plasmacytoid dendritic cell	pDC	CD3- CD4- CD8- CD19- NK1.1- B220+ CD11c low	spleen
type 2 innate lymphoid cell	ILC2	lineage- IL-7Rα+ Sca-1+ c-Kit+ ST2+	mesenteric lymph node

lineage-: CD3-, CD4-, CD8-, CD19-, B220-, NK1.1-, Gr-1-, Ter119-

lymphoid markers-: CD3-, CD4-, CD8-, CD19-, B220-, NK1.1-