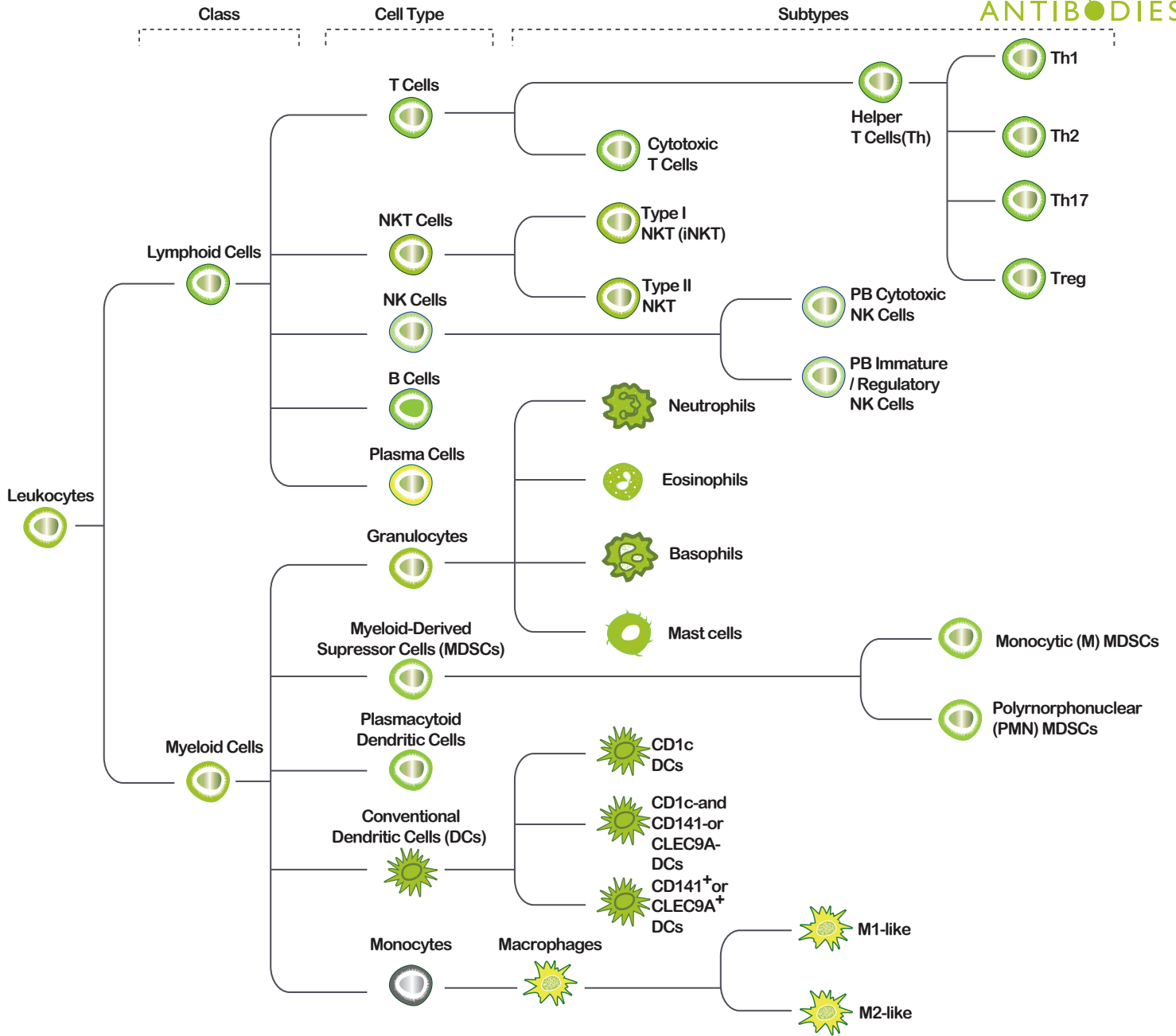


Immune Cell Phenotyping Markers



Cell type and subtype		Key Markers in Human	Key Markers in Mouse
Leukocytes		CD45+	CD45+
Lymphoid	T cell	CD3+	CD3+
	Cytotoxic T cell	CD3+ CD8+	CD3+ CD8+
	Helper T (Th) cell	CD3+ CD4+	CD3+ CD4+
	Th1	CD3+ CD4+ T-bet+	CD3+ CD4+ T-bet+
	Th2	CD3+ CD4+ GATA3+	CD3+ CD4+ GATA3+
	Th17	CD3+ CD4+ RORγt+	CD3+ CD4+ RORγt+
	Regulatory T cell	CD3+ CD4+ CD25+ Foxp3+	CD3+ CD4+ CD25+ Foxp3+
	B cell	CD19+ CD20+	CD19+
	Plasma cell	BCMA+ or CD138+	BCMA+ or CD138+
	NK cell	CD56+ CD3-	NK1.1+ Nkp46+ NKG2D+ CD3-
Myeloid	NKT cell	CD56+ Vα24+ CD3+	NK1.1+ CD3+
	Monocyte	CD14+ HLA-DR+ CD206- CD86-	CD14+ F4/80-
	Macrophage	CD68+ HLA-DR+ CD11c-	F4/80+
	M1 Macrophage	CD86+ CD80+ iNOS+	CD86+ CD80+ iNOS+
	M2 Macrophage	CD163+ CD206+	CD163+ CD206+ Arginase-1+
	Conventional DC	CD11c+ HLA-DR+	CD11c+ MHCII+ CD205+
	Plasmacytoid DC	CD123+ BDCA-2+ BDCA-4+	Siglec-H+ CD317+
	Monocytic MDSC	CD15- CD14+ HLA-DR-	Ly6C+ Ly6G- Arginase-1+
	Polymorphonuclear MDSC	CD15+ CD14- HLA-DR-	Ly6C ^{low} Ly6G+ Arginase-1+
	Neutrophil	CD66b+ CD15/SSEA1+	CD66a+ Ly6G+
	Eosinophil	CD193+ CD125+ CD16-	CD193+ Siglec-F+
	Basophil	FcεR1α+ CD123+ CD117-	FcεR1α+ CD117-
	Mast cell	FcεR1α+ CD117+ Tryptase+	FcεR1α+ CD117+

DC: Dendritic cell; MDSC: Myeloid-derived suppressor cell

Key Products for Immune Cell Markers

Target Name	Cat.No.	Reactivity	Applications	Citations
CD45	bs-0522R	Human,Mouse,Rat	WB, FCM	PubMed
CD3E	bs-0765R	Human,Mouse,Rat	IHC-P,IF,FCM	PubMed
CD4	bs-0647R	Human,Mouse,Rat	WB,IHC-P,FCM	PubMed
T-bet	bs-3599R	Human,Mouse,Rat	WB,IHC-P	PubMed
ROR gamma T	bs-23110R	Human,Mouse,Rat	WB,IHC-P	
GATA3	bs-1452R	Human,Mouse,Rat	IHC-P,FCM	PubMed
CD8	bs-0648R	Human,Mouse	WB,IHC-P	PubMed
CD11c	bs-20690R	Human,Mouse	WB,FCM	
CD14	bsm-30074M-FITC	Human	FCM	
CD15	bs-20726R	Human,Mouse	WB,FCM	
CD16	bsm-30075M-FITC	Human	FCM	
CD19	bs-20782R	Human,Mouse	WB,FCM	
CD20	bs-20638R	Human,Mouse	WB,FCM	
FoxP3	bs-10211R	Human,Mouse,Rat	WB,FCM	PubMed
CD25/IL2RA	bs-0577R	Human,Mouse	WB,FCM	PubMed
CD28	bs-1297R	Human,Mouse,Rat	WB,IHC-P,FCM	PubMed
CD56	bs-0805R	Human,Mouse,Rat	WB,IHC-P,FCM	
CD68	bs-0649R	Human,Mouse,Rat	WB,IHC-P,IF,FCM	PubMed
CD80	bs-23738R	Human	WB,IHC-P	
CD86	bs-1035R	Human,Mouse,Rat	WB,IF,FCM	PubMed
CD163	bs-23128R	Human,Mouse,Rat	WB,FCM	
CD206	bs-21473R	Human,Mouse,Rat	WB,FCM	
Arginase 1	bs-23837R	Human,Mouse,Rat	WB,IHC-P	
iNOS	bs-20601R	Human,Rat	WB,IHC-P,FCM	
NKG2D	bs-20660R	Mouse,Rat	WB,FCM	
NKG2D	bs-20661R	Mouse,Rat	WB,FCM	
NCR1/Nkp46	bs-10027R	human,Mouse	WB	PubMed
HLA-DR	bs-1198R	Human,Mouse,Rat	WB,FCM	PubMed
CD123/IL3RA	bs-2600R	Human,Mouse	FCM	
BDCA4	bs-0693R	Human,Mouse,Rat	WB,IHC-P	PubMed
CD66a	bs-4896R	Human	WB,FCM	
CCR3	bs-1167R	Human,Mouse,Rat	WB,IHC-P	
c-kit/CD117	bs-0672R	Human,Mouse,Rat	IHC-P,FCM	PubMed

WB=Western Blot; IHC-P=Immunohistochemistry with Paraffin-Embedded Tissue Slides; IF=Immunofluorescence; FCM=Flow cytometry