

BONE MARROW

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BLOOD

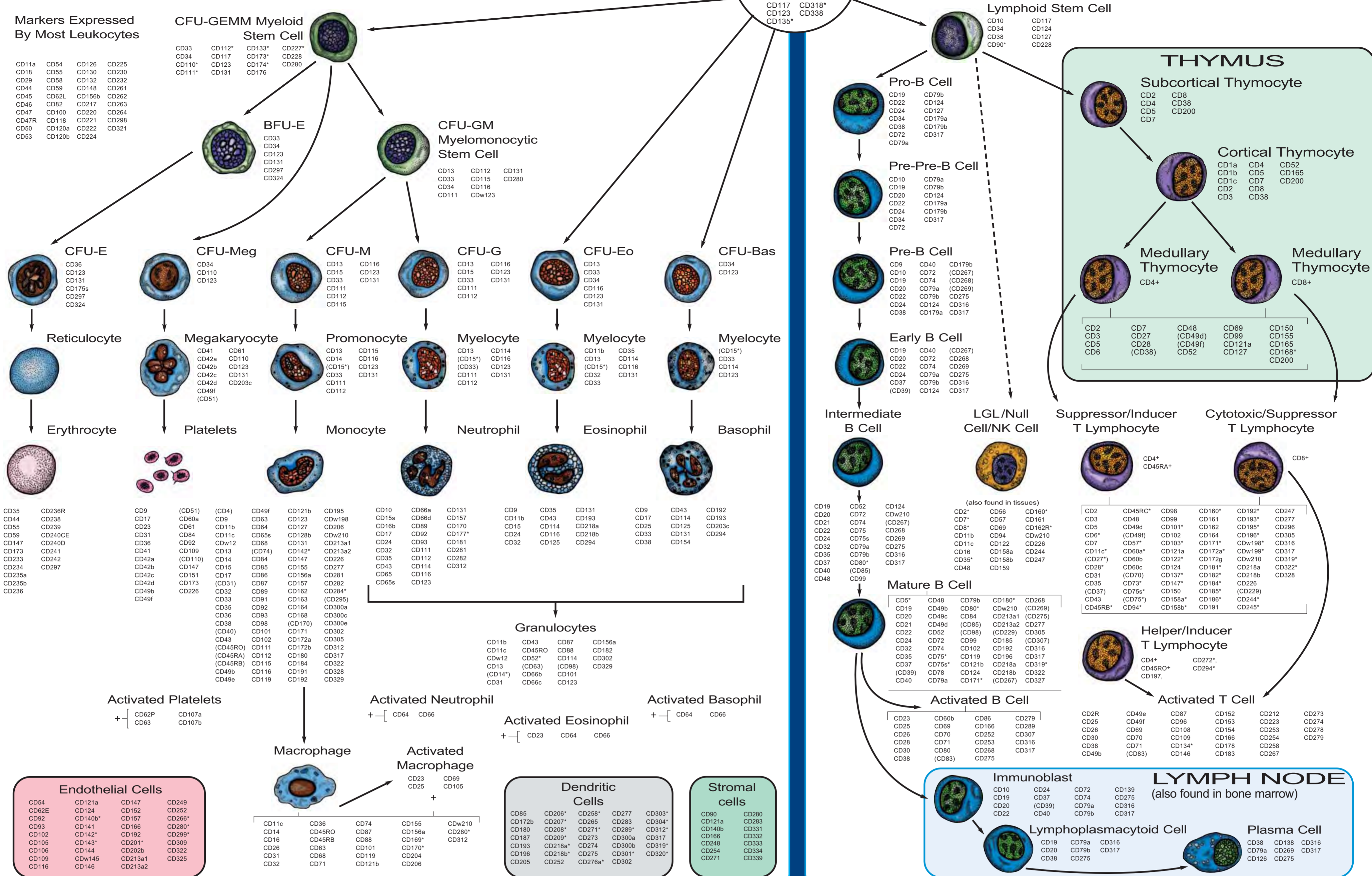
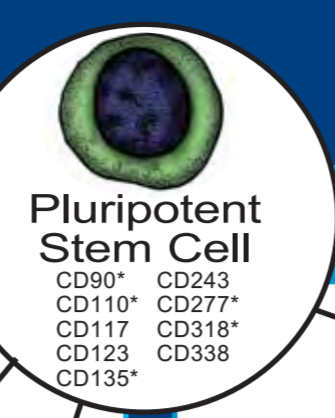
BLOOD

TISSUE

TISSUE

MYELOID

LYMPHOID



CD	Main Antigen Expression	Other names	MW (kDa)
CD1a	Cortical Thymocytes (sp), B cell subset		49.12
CD1b	Cortical Thymocytes (mod), B cell subset		45.12
CD1c	Cortical Thymocytes (weak), B cell subset		43.12
CD2	T cells, NK cells	LFA-2, E-Rosette Receptor	50
CD2R	Activated T cells		50
CD3	T cells		16,20,25-28
CD4	Helper-inducer T cells, Monocytes, Macrophages		56
CD5	T cells, B cell subset		67
CD6	T cells, B cell subset		40
CD7	T cells, Granulocytes		32-34
CD8	Cytotoxic/Suppressor T cells, NK cells		32-34
CD9	Platelets, Monocytes, Pre-B cells		100
CD10	Pre-B cells, Granulocytes		180
CD11a	Leukocytes	LFA-1, αL Integrin	180
CD11b	Granulocytes, Monocytes, NK cells	MAC-1, αM Integrin, CR3	170
CD11c	Granulocytes, Monocytes, NK cells, T cell subset, B cell subset	αX Integrin	150
CD12	Granulocytes, Monocytes		90-120
CD13	Granulocytes, Monocytes	Aminopeptidase N	130
CD14	Monocytes		55
CD15	Neutrophils, Monocytes	Lewis X	CHO
CD15a	Neutrophils	Sialyl Lewis X	CHO
CD15b	Myeloid subset	Sulfated Lewis X	CHO
CD16a	NK cells, Macrophages	FCR1b A	50-65
CD16b	Granulocytes	FCR1b B	48
CD17	Granulocytes, Monocytes, Platelets	Lactocycloamide	85
CD18	Leukocytes (Platelets negative)	β2 Integrin	95
CD19	B cells		33,35,37
CD20	B cells		145
CD21	B cell subset, Follicular dendritic cells	CR2	140
CD22	B cells		140
CD23	B cell subset, Eosinophils, Platelets	FCR2	90-95
CD24	B cells, Granulocytes		41/58
CD25	Activated T cells	IL-2Rα Chain	55
CD26	T cell subset, Macrophages		110
CD27	T cell subset		55
CD28	T cell subset		44
CD29	Leukocytes	β1 Integrin	130
CD30	Activated T and B cells, Reed-Sternberg cells		67
CD31	Platelets, Megakaryocytes, B cells	PECAM-1, GPIIb	140
CD32	Monocytes, Neutrophils, B cells, Eosinophils	FCR1	40
CD33	Myeloid Progenitor cells, Monocytes		67
CD34	Hematopoietic Progenitor cells		105-120
CD35	Monocytes, B cells, Granulocytes	CR1	180,190,220,250
CD36	Monocytes, Platelets	GPVI (IIb/3)	85
CD37	B cells		52-40
CD38	Activated T cells, Plasma cells		45
CD39	B cells, Monocytes		100-70
CD40	B cells, Monocytes, Carcinoma cells		48/44
CD41	Platelets, Megakaryocytes	GPIIb/IIIa, αIIb Integrin	120
CD42a	Platelets, Megakaryocytes	GPVI	23
CD42b	Platelets, Megakaryocytes	GPIIb	135,23
CD42c	Platelets, Megakaryocytes	GPIIb	22
CD42d	Platelets, Megakaryocytes	GPVI	85
CD43	T cells, Granulocytes, Monocytes	Leukosialin	90-100
CD44	Leukocytes, Erythrocytes	H-CAM, Pgp-1	8-90
CD44R	(Variant-dependent on Exon Splicing)		180,190,205,220
CD45	Leukocytes		220,225
CD45RA	B cells, T cell subset, Monocytes		220,225
CD45RB	B cells, T cell subset, Monocytes		190,205,220
CD45RC	B cells, T cell subset		190,205,220
CD45RO	B cells, T cell subset, Monocytes		180
CD46	Broad (Erythrocytes negative)	Membrane Cofactor Protein	66,56
CD47	Ubiquitous		47-52
CD47R	Broad		47-52
CD48	Leukocytes		210
CD48a	Activated T cells	VLA-1, α1 Integrin	43
CD48b	B cells, Monocytes, Eosinophils	VLA-2, α2 Integrin	120
CD48c	B cells	VLA-3, α3 Integrin	125
CD48d	Lymphocytes, Monocytes, Eosinophils	VLA-4, α4 Integrin	150,80,70
CD48e	T cell subset, Monocytes, Platelets	VLA-5, α5 Integrin	132/25
CD49	T cell subset, Monocytes	VLA-6, α6 Integrin	120/25
CD50	Leukocytes	ICAM-3	124
CD51	Platelets	αV Integrin	125/25
CD51b1	Platelets, Osteoclasts, Endothelial cells		complex
CD52	Leukocytes	CAMPATH-1	21-28
CD53	Leukocytes		32-40
CD54	Endothelial cells, Various activated cells	ICAM-1	75
CD55	Broad	Decay Accelerating Factor	75
CD56	NK cells	NCAM	220/135
CD57	NK cells, T cell subset	HNK-1	110
CD58	Broad	LFA-3	65-70
CD59	Broad	Protelin, Homologous Restriction Factor	18-28
CD60a	T cell subset, platelets	CHO	125
CD60b	T cell subset, activated B cells	9-D-αGal3 CHO	125
CD60c	T cell subset	CHO	125
CD61	Platelets, Megakaryocytes	β3 Integrin, GPIIb	110
CD62E	Endothelial cells	E-Selectin, ELAM-1	140
CD62L	Lymphocytes, Monocytes, NK cells	L-Selectin, LECAM-1	135
CD62P	Activated Platelets, Endothelial cells	P-Selectin, LECAM-3	75-80
CD63	Activated Platelets, Monocytes		55
CD64	Monocytes	FCR1	75
CD65	Neutrophils		80-90
CD66	Neutrophils, Monocytes		160-180
CD66a	Neutrophils	Biliary Glycoprotein	95-100
CD66b	Granulocytes	CGM6	95-100
CD66c	Neutrophils, Colon carcinoma	NCA	90
CD66d	Neutrophils	CGA1	30
CD66e	Colon epithelial		180-200
CD66f	Neutrophils	Pregnancy Specific Glycoprotein	60
CD67	(Re-assigned to CD66b)		110
CD68	Monocytes, Macrophages		110
CD69	Activated T and B cells, NK cells	Activation Inducer Molecule	34/28

CD	Main Antigen Expression	Other names	MW (kDa)
CD70	Activated T and B cells, Reed-Sternberg cells		75,95,170
CD71	Proliferating cells	Transferrin Receptor	95
CD72	B cells		43/39
CD73	B & T cell subset	ECTO-5' Nucleotidase	69
CD74	B cells, Monocytes	Invariant Chain	41,35,33
CD75	B cell subset, Epithelial	Lectin-like	CHO
CD75a	B cell subset	α-2,6-sialylated Lactosamines	CHO
CD77	Activated B cells, Endothelial cells		33,40
CD78a	B cells	MB-1	33,40
CD78b	B cells	B29	33,40
CD80	Activated B cells	B7-1	60
CD81	B cells, T cells, Neutrophils	Lactosialin	40
CD82	Leukocytes, Platelets	TAPA-1	50-53
CD83	Dendritic cells, Activated lymphocytes	HB15	43
CD84	Monocytes, Platelets, B cells		73
CD85	Dendritic cells, Monocytes, B cells	see note 1 in notes section	110
CD86	Monocytes, Activated B cells	B7-2	60
CD87	Granulocytes, Monocytes, Activated T cells	CSA Receptor	56-65
CD88	Granulocytes	FCR2	55-70
CD89	Neutrophils, Monocytes	Fox Receptor	55-70
CD90	Progenitor cell subset, Thymic Stromal cells	Thy-1	18
CD91	Monocytes	α2 Macroglobulin Receptor	600
CD92	Neutrophils, Monocytes, Platelets, Endothelial cells		70
CD93	Neutrophils, Monocytes, Endothelial cells		120
CD94	NK cells, T cell subset	CD137	30
CD95	Apoptotic cells	FAS	42
CD96	Activated T cells	Tadpole	160
CD97	Activated T cells	CD55 Ligand	74,80,89
CD98	Monocytes, T cells, B cells	4F2	80,40
CD99	Lymphocytes, Thymocytes		32
CD99R	T cells, NK cells, Myeloid cells		32
CD100	Broad		150
CD101	Granulocytes, Monocytes, Activated T cells		140
CD102	Lymphocytes, Monocytes	ICAM-2	60
CD103	Intra Epithelial Lymphocytes	HLA-1, αE Integrin	150,25
CD104	Epithelial, Schwann cells	β4 Integrin	220
CD105	Endothelial cells	Endoglin	95
CD106	Activated Endothelial cells	VCAM-1	100-110
CD107a	Activated Platelets	LAMP-1	110
CD107b	Activated Platelets	LAMP-2	120
CD108	Activated splenic T cells		170/150
CD109	Activated T cells, Endothelial cells	Platelet Activation Factor	62-86
CD110	Stem cell subset, Megakaryocytes, Platelets (v. weak)	Thrombospondin Receptor, Mpl	62-86
CD111	Stem cell subset, Macrophages, Neutrophils	FRN/Necl-1	64-72
CD112	Monocytes, Neutrophils, Stem cell subset	PRR2/Necl-2	64-72
CD113	Epithelial cells, Placenta	PRRS, Necl-3	83
CD114	Granulocytes, Monocytes	G-CSF Receptor	95,139
CD115	Monocytes, Macrophages	M-CSF Receptor	95
CD116	Monocytes, Neutrophils, Eosinophils	GM-CSF Receptor α Chain	95
CD117	Progenitor cells	SCF Receptor, c-kit	145
CD118	Epithelial cells	LIF Receptor	190
CD119	Monocytes, B cells, Epithelial cells	IFN γ Receptor	90
CD120a	Monocytes, Granulocytes	TNF Receptor, Type 1	55
CD120b	Monocytes, Granulocytes	TNF Receptor, Type 2	75
CD121a	T cells, Fibroblasts, Endothelial cells	IL-1 Receptor, Type 1	60
CD121b	T cells, Monocytes, Macrophages	IL-1 Receptor, Type 2	68
CD122	T cell subset, NK cells	IL-2 Receptor β Chain	75
CD123	Progenitor cells, Granulocytes	IL-3 Receptor α Chain	70
CD124	B cells, T cells, Progenitor cells	IL-4/13 Receptor	140
CD125	Eosinophils, Basophils	IL-5 Receptor α Chain	60
CD126	Plasma cells, Activated B cells	IL-6 Receptor α Chain	80
CD127	Early B cells, T cells	IL-7 Receptor α Chain	65-75
CD129	NK cells		65-75
CD129	NK assigned		
CD130	Plasma cells, Activated B cells	gp130 Receptor Subunit for IL-6, IL-11, LIF, OSM, LNTF, CT-1	130
CD131	Myeloid cells	Common β Chain for IL-2, IL-7, IL-9, IL-15 Receptors	120
CD132	Broad		64
CD133	Stem cell subset	AC-133	120
CD134	Activated T cell subset	OX40	45-50
CD135	Progenitor cell subset	VEGFR2	135-150
CD136	Epithelial cells	Macrophage Stimulating Protein Receptor	180
CD137	T cell subset	4-1BB	30
CD138	Plasma cells, Epithelial cells	SYNDECAN-1	20
CD139	Germinal center B cells		200,228
CD140a	(Undetectable on most normal cells)	PDGF Receptor α	180
CD140b	Endothelial cell subset, Stromal cells	PDGF Receptor β	180
CD141	Endothelial cells	Thrombospondin	100
CD142	Activated Monocytes and Endothelial cells	Tissue Factor	170
CD143	Endothelial cell subset	Angiotensin Converting Enzyme	45
CD144	Endothelial cells	VCAM-2	135
CD145	Endothelial cells, Some stromal cells	VE-CADHERIN	135,90,110
CD146	Endothelial cells, Activated T cells	MUC18/5-endo	118
CD147	Endothelial cells, Monocytes, T cell subset, Platelets, Erythrocytes	Neurothelin/Basigin	50-60
CD148	Hematopoietic cells	HPT-ETAF/DEP-1	180
CD150	T cell subset, B cell subset, Thymocytes	ITP-ETAF/DEP-1	70
CD151	Platelets, Endothelial cells	PET-3	27
CD152	Activated T cells	CTLA-4	44
CD153	Activated T cells	CD28 Ligand	40
CD154	Activated T cells, Mast cells, Basophils	CD28 Ligand	33
CD155	Monocytes, Macrophages, Thymocytes	Painovirus Receptor	80-90
CD156a	Monocytes, Macrophages, Granulocytes	ADAM8	60
CD156b	Broad	TACE/ADAM17	85
CD156c	Broad	ADAM-10	98
CD157	Monocytes, Neutrophils, Endothelial cells	BST-1	42-45
CD158	T cell subset, NK cell subset	see note 2 in notes section	50-55
CD159	NK cells, T cell subset	β5-1, β5-1	135
CD159b	NK cells, T cell subset	β5-2, β5-2	50,58
CD159c	NK cells	β5-3	45
CD159d	NK cells	β5-4	45
CD159e	NK cells	β5-5	40
CD160	T cell subset, NK cell subset	By55	26
CD161	NK cells, T cell subset	NRK-RP1	60

CD	Main Antigen Expression	Other names	MW (kDa)
CD162	T cells, Monocytes, Granulocytes, B cell subset	PSGL-1	110
CD162R	NK cell subset	PEN-5	CHO
CD163	Monocytes	KIM4	130
CD164	T cells, Monocytes, Granulocytes, B cell subset, Progenitor cells	MGC-24	80
CD165	Thymocytes, Thymic epithelial cells	AD2/gp37	37
CD166	Activated Lymphocytes, Endothelial cells, Fibroblasts	ALCAM, CD6 Ligand	100
CD167a	Epithelial cells, Myoblasts	Dacoidin Domain Receptor, DDR1	120
CD168	Thymocyte subset, T cell subset, Monocytes	RHAMM	84-88
CD169	Macrophage subset	Sialosialin	160
CD170	Macrophage subset, Neutrophils	Siglec-5	140
CD171	Monocytes, T cell subset, B cells	LI	200
CD172a	Monocytes, T cell subset, Stem cells	SIRP α	110
CD172b	Monocytes, Dendritic cells	SIRP β	50
CD172c	T cells, Activated NK cells	SIRP γ, SIRP δ2	45-50
CD173	Red cells, Stem cell subset, Platelets	Blood group H type 2	CHO
CD174	Stem cell subset, Erythrocytes	Lewis V	CHO
CD175	Stem cell subset	TN	CHO
CD175a	Erythroblasts	Sialyl-Tn	CHO
CD176	Stem cell subset	Thomsen-Friedreich antigen	CHO
CD177	Neutrophil subset	NR1	56-62
CD178	Activated T cells	Fas ligand	38-42
CD179a	Pre-B cells, Pre-B cells	V α pre cells	15
CD179b	Pre-B cells, Pre-B cells	Lambda 5	22
CD180	B cell subset, Monocytes, Dendritic cells	Rp105/Bp 95	95-105
CD181	Neutrophils, T cell subset	CXCR1	39
CD182	Monocytes, Granulocytes, T cell subset	CXCR2	40
CD183	Activated T cells, Activated NK cells	CXCR3	40
CD184	T cell subset, B cells, Monocytes, Dendritic cells, Endothelial cells	CXCR4	45
CD185	B cells, T cell subset	CXCR5	45
CD186	T cell subset	CXCR6, BONZO	39
CD187	T cells, Monocytes, Stem cell subset	CXCR7	39
CD189	Monocytes, T cell subset, B cells, Basophils, Endothelial cells	CCR2	40
CD193	Eosinophils, Basophils, T cell subset, Dendritic cell subset	CCR3	45
CD194	T cells, Basophils, Platelets, Monocytes (low)	CCR4	41
CD195	Monocytes, T cell subset	CCR5	45
CD196	T cell subset, B cells, Dendritic cell subset	CCR6	45
CD197	T cell subset	CCR7	45
CD198	T cell subset, Monocytes	CCR8	45
CD199	T cell subset	CCR9	50
CD200	Thymocytes, B cells, Endothelium, Activated T cells	OX-2	45-50
CD201	Endothelial cell subset	Endothelial cell Protein C Receptor (EPCR)	50
CD202a	Endothelial cells, Stem cells	Tie-1/Tie2	150
CD202b	Endothelial cells, Stem cells	Tie-2	150
CD203a	Basophils, Megakaryocytes	NPR3	130-150
CD204	Macrophages	Macrophage Scavenger Receptor	220
CD205	Dendritic cells, Thymic epithelium	DEC-205	205
CD206	Dendritic cell subset, Macrophages, Monocytes	Macrophage Mannose Receptor	180
CD207	Immature langerhans cells	Langerin	40
CD208	Integrating dendritic cells	DC-SIGN	70-90
CD209	Dendritic cell subset	DC-SIGN	44
CD210	T cells, B cells, NK cells, Monocytes, Macrophages	IL-10R	90-110
CD211	Activated T cells, Activated NK cells	IL-12Rβ1	100
CD212	B cells, Monocytes, Fibroblasts, Endothelial cells	IL-13Rα1	65
CD213a2	B cells, Monocytes	IL-13Rα2	65
CD217	Broad	IL-17R	120
CD218a	Lymphocytes, Neutrophils, Dendritic cell subset	IL-18Rα	70
CD218b	Lymphocytes, Neutrophils, Dendritic cell subset	IL-18Rβ	70
CD220	Broad	Insulin Receptor	140-70
CD221	Broad	IGF-1 Receptor	140-70
CD222	Broad		