Human CD Antigen Expression

HLDA9

AbD serotec
A Division of MorphoSys

MYELOID

BONE MARROW

Markers Expressed By Most Leukocytes

CD11a CD18 CD29 CD44 CD45 CD46 CD47 CD47R CD50 CD53 CD54 CD55 CD58 CD59 CD62L CD82 CD100 CD118 CD120a CD120b CD126 CD130 CD132 CD148 CD156b CD217 CD220 CD221 CD222 CD224 CD225 CD230 CD232 CD261 CD262 CD263 CD264 CD270 CD298 CD321 CD361

Pluripotent Stem Cell

CD90* CD110* CD117 CD123 CD135* CD243 CD277* CD318* CD338

CFU-GEMM Myeloid Stem Cell

CD33 CD34 CD110* CD111* CD112* CD117 CD123 CD131 CD133* CD173* CD174* CD176 CD227* CD228 CD280

BFU-E

CD33 CD34 CD123 CD131 CD297 CD324

CFU-GM Myelomonocytic Stem Cell

CD13 CD33 CD34 CD111 CD112 CD115 CD116 CDw123 CD131 CD280

CFU-E

CD36 CD123 CD131 CD175s CD297 CD324

CFU-Meg

CD34 CD110 CD123

CFU-M

CD13 CD15 CD33 CD111 CD112 CD115 CD116 CD123 CD131

CFU-G

CD13 CD15 CD33 CD111 CD112 CD116 CD123 CD131

CFU-Eo

CD13 CD33 CD34 CD116 CD123 CD131

CFU-Bas

CD34 CD123

Reticulocyte

Megakaryocyte

CD41 CD42a CD42b CD42c CD42d CD49f (CD51) CD61 CD110 CD123 CD131 CD203c

Promonocyte

CD13 CD14 (CD15*) CD33 CD111 CD112 CD115 CD116 CD123 CD131

Myelocyte

CD13 (CD15*) (CD33) CD111 CD112 CD114 CD116 CD123 CD131

Myelocyte

CD11b CD13 (CD15*) CD32 CD33 CD35 CD114 CD116 CD131

Myelocyte

(CD15*) CD33 CD114 CD123

Erythrocyte

CD35 CD44 CD55 CD59 CD147 CD173 CD233 CD234 CD235a CD235b CD236 CD236R CD238 CD239 CD240CE CD240D CD241 CD242 CD297

Platelets

CD9 CD17 CD23 CD31 CD36 CD41 CD42a CD42b CD42c CD42d CD49b CD49f (CD51) CD60a CD61 CD84 CD92 CD109 (CD110) CD147 CD151 CD173 CD226

+

Activated Platelets

CD62P CD63 CD107a CD107b

Monocyte

(CD4) CD9 CD11b CD11c CDw12 CD13 CD14 CD15 CD17 (CD31) CD32 CD33 CD35 CD36 CD38 (CD40) CD43 (CD45RO) (CD45RA) (CD45RB) CD49b CD49e CD49f CD63 CD64 CD65s CD68 (CD74) CD84 CD85 CD86 CD87 CD89 CD91 CD92 CD93 (CD98) CD99 CD101 CD102 CD111 CD115 CD116 CD119 CD121b CD123 CD127 CD128b CD131 CD142* CD147 CD155 CD156a CD157 CD162 CD163 CD164 CD168 CD170 CD172a CD172b CD180 CD184 CD191 CD195 CD206 CD210 CD213a1 CD213a2 CD226 CD277 CD281 CD282 CD284* (CD295) CD300a CD300c CD300e CD302 CD305 CD312 CD317 CD322 CD328 CD329 CD351 CD352 CD353 CD362

Neutrophil

CD10 CD15s CD16d CD17 CD24 CD32 CD35 CD43 CD65 CD65s CD66a CD66d CD89 CD92 CD93 CD111 CD112 CD114 CD116 CD123 CD131 CD157 CD170 CD177* CD181 CD281 CD282 CD312

+

Activated Neutrophil

CD64 CD66

Eosinophil

CD9 CD11b CD15 CD24 CD32 CD35 CD43 CD114 CD116 CD125 CD131 CD193 CD218a CD218b CD294

+

Activated Eosinophil

CD23 CD64 CD66

Basophil

CD9 CD17 CD25 CD33 CD38 CD43 CD114 CD125 CD131 CD154 CD192 CD193 CD203c CD294

+

Activated Basophil

CD64 CD66

Granulocytes

CD11b (CD63) CD156a CD11c CD68b CD182 CDw12 CD68c CD302 CD13 CD87 CD329 (CD14*) CD88 CD354 CD31 CD114 (CD360) CD43 (CD98) CD362 CD45RO CD101 CD52* CD123

Macrophage

CD11c CD14 CD16 CD26 CD31 CD32 CD36 CD45RO CD45RB CD63 CD68 CD71 CD74 CD87 CD88 CD101 CD119 CD121b CD156a CD169* CD170* CD204 CD206 CD210 CD280* CD312 CD351 CD353 CD354 CD357 CD358 CD360

+

Activated Macrophage

CD23 CD25 CD69 CD105

BLOOD

TISSUE

Endothelial Cells

CD54 CD62E CD92 CD93 CD102 CD105 CD106 CD109 CD116 CD121a CD124 CD140b CD141 CD142* CD143* CD144 CDw145 CD146 CD146 CD202b CD213a1 CD213a2 CD249 CD252 CD266* CD280* CD299* CD309 CD322 CD325

Dendritic Cells

CD85 CD172b CD180 CD187 CD193 CD196 CD205 CD206* CD207* CD208* CD209* CD218a* CD218b* CD252 CD258* CD265 CD271* CD273 CD274 CD275 CD276a* CD277 CD283 CD289* CD300a CD300b CD301* CD302 CD303* CD304* CD312* CD317 CD319* CD320* CD352 CD354 CD357

Stromal Cells

CD90 CD121a CD140b CD166 CD248 CD254 CD271 CD280 CD283 CD331 CD332 CD333 CD334 CD339

LYMPHOID

BONE MARROW

Lymphoid Stem Cell

CD10 CD34 CD38 CD90* CD117 CD124 CD127 CD228

Pro-B Cell

CD19 CD22 CD24 CD34 CD38 CD72 CD79a CD79b CD124 CD127 CD179a CD179b CDD317

Pre-B Cell

CD9 CD10 CD19 CD20 CD22 CD24 CD38 CD40 CD72 CD79a CD79b CD179a CD179b (CD267) (CD268) (CD269) CD275 CD307a CD316 CD317

Immature B Cell

CD19 CD20 CD21 CD22 CD24 CD32 CD35 CD37 CD40 CD48 CD52 CD72 CD74 CD75s CD79a CD79d CD80* (CD85) CD99 CD124 CD210 (CD267) CD268 CD269 CD275 CD316 CD317

THYMUS

Subcortical Thymocyte

CD2 CD4 CD5 CD7 CD8 CD38 CD200

Cortical Thymocyte

CD1a CD1b CD1c CD2 CD3 CD4 CD5 CD7 CD8 CD38 CD52 CD165 CD200

Medullary Thymocyte

CD4*

Medullary Thymocyte

CD8*

CD2 CD3 CD5 CD6 CD7 CD27 CD28 (CD38) CD48 (CD49d) (CD49f) CD52 CD69 CD99 CD121a CD127 CD150 CD155 CD165 CD168* CD200

LGL/Null Cell/NK Cell

(also found in tissues)

CD2* CD7* CD8* CD11b CD11c CD16 CD35* CD48 CD56 CD57 CD69 CD94 CD122 CD158a CD158b CD247 CD160* CD161 CD162R* CD210 CD226 CD244

Suppressor/Inducer T Lymphocyte

CD4* CD45RA*

Cytotoxic/Suppressor T Lymphocyte

CD8*

CD2 CD3 CD5 CD6* CD7 (CD27*) CD28* CD31 CD35 (CD37) CD43 CD45RB* CD45RC* CD48 CD49d CD49f) CD57* CD60a* CD60b CD60c (CD70) CD75s* (CD75*) CD94* CD98 CD99 CD101* CD102 CD103* CD121a CD122* CD124 CD147* CD150 CD158a* CD158b* CD160* CD161 CD162 CD164 CD171* CD172a* CD172g CDw198* CDw199* CD181* CD182* CD184* CD185* CD186* CD191 CD192* CD193* CD195* CD196* CD210 CD215 CD218a CD218b CD229) CD244* CD245* CD247 CD277 CD296 CD305 CD316 CD317 CD319* CD322* CD328 CD351 CD352 CD355 CD357 CD358 (CD362) CD363

Mature B Cell

CD5* CD19 CD20 CD21 CD22 CD24 CD32 CD35 (CD39) CD40 CD48 CD49b CD49c CD49d CD52 CD72 CD74 CD75* CD75s* CD78 CD79a CD79b CD80* (CD85) (CD98) CD99 CD102 CD119 CD121b CD124 CD171* CD180* CD185 CD192 CD196 CD210 CD213a1 CD213a2 (CD229) (CD2267) (CD268) CD269 (CD275) CD277 CD305 CD316 CD317 CD319* CD322 CD327 CD352 CD353 CD354 CD355 (CD357) CD358 CD360 CD362 CD363

Helper/Inducer T Lymphocyte

CD4* CD45RO* CD197 CD272* CD294*

Activated T Cell

CD2R CD25 CD26 CD30 CD38 CD49b CD49e CD49f CD69 CD70 CD71 (CD83) CD87 CD96 CD108 CD109 CD134* CD146 CD152 CD153 CD154 CD166 CD178 CD183 CD212 CD223 CD253 CD254 CD258 CD267 CD273 CD274 CD278 CD279

Activated B Cell

CD10 CD23 CD25 CD26 CD28 CD30 CD38 CD60b CD69 CD70 CD71 CD80 (CD83) CD86 CD132 CD166 CD252 CD253 CD268 CD275 CD279 CD289 CD316 CD317

Naïve Mature B Cell

CD5* CD19 CD20 CD21 CD22 CD24 CD32 CD35 (CD39) CD40 CD48 CD49b CD49c CD49d CD52 CD72 CD74 CD75* CD78 CD79a CD79b CD80* CD84 (CD85) (CD98) CD99 CD102 CD119 CD121b CD124 CD171* CD180* CD185 CD192 CD196 CD210 CD213a1 CD213a2 (CD229) CD218a CD218b (CD2267) CD268 CD269 (CD275) CD277 CD305 CD307a CD316 CD317 CD319* CD322 CD327

LYMPH NODE

(These cells move between the bone marrow, blood, and tissue.)

Activated B Cell

CD5* CD10 CD19 CD20 CD21 CD22 CD24 CD32 CD35 CD37 CD40 CD48 CD49b CD49c CD49d CD52 CD72 CD74 CD75* CD75s* CD76 CD78 CD79a CD79b CD80* CD84 (CD85) (CD98) CD99 CD102 CD119 CD121b CD124 CD171* CD180* CD185 CD192 CD196 CD210 CD213a1 CD213a2 (CD229) CD218a CD218b (CD2267) CD268 CD269 (CD275) CD277 CD316 CD317 CD319* CD322 CD327

Memory B Cell

CD5* CD19 CD20 CD21 CD22 CD24 CD27 (CD39) CD32 CD35 CD37 CD40 CD48 CD49b CD49c CD49d CD52 CD74 CD75* CD75s* CD78 CD79a CD79b CD80* (CD85) (CD98) CD99 CD102 CD119 CD121b CD124 CD171* CD180* CD185 CD192 CD196 CD210 CD213a1 CD213a2 (CD229) CD218a CD218b (CD2267) CD268 CD269 (CD275) CD277 CD305 CD307a CD316 CD317 CD319* CD322 CD327

Immunoblast

CD10 CD19 CD20 CD22 CD24 CD27 CD37 CD38 (CD39) CD40 CD72 CD74 CD79a CD79b CD139 CD275 CD316 CD317

Plasma Cell

CD38 CD79a CD126 CD138 CD269 CD275 CD307a CD316 CD317

CD	Main Antigen Expression	Other Names
• CD1a	Cortical thymocytes (stg), B cell subset, Dendritic cells, Langerhans cells	
• CD1b	Cortical thymocytes (mod), B cell subset, Dendritic cells, Langerhans cells	
• CD1c	Cortical thymocytes (weak), B cell subset, Dendritic cells, Langerhans cells	
• CD2	T cells, NK cells	LFA-2, E-Rosette Receptor
CD2R	Activated T cells	
• CD3	T cells	
• CD4	Helper-inducer T cells, Monocytes, Macrophages	
• CD5	T cells, B cell subset	
• CD6	T cells, B cell subset	
• CD7	T cells	
• CD8	Cytotoxic/Suppressor T cells, NK cells	
• CD9	Platelets, Monocytes, Pre-B cells	
• CD10	Pre-B cells, Granulocytes	CALLA
• CD11a	Leukocytes	LFA-1, αL Integrin
• CD11b	Granulocytes, Monocytes, NK cells	MAC-1, αM Integrin, CR3
• CD11c	Granulocytes, Monocytes, NK cells, T cell subset, B cell subset	αX Integrin
CDw12	Granulocytes, Monocytes	
• CD13	Granulocytes, Monocytes	Aminopeptidase N
• CD14	Monocytes	
• CD15	Granulocytes, Monocytes	Lewis X
CD15s	Neutrophils	Sialyl Lewis X
CD15u	Myeloid subset	Sulfated Lewis X
CD16a	NK cells, Macrophages	FcRIII A
• CD16b	Granulocytes	FcRIII B
CD17	Granulocytes, Monocytes, Platelets	Lactosylceramide
• CD18	Leukocytes (Platelets negative)	β2 Integrin
• CD19	B cells	
• CD20	B cells	
• CD21	B cells subset, Follicular dendritic cells	CR2
• CD22	B cells	
• CD23	B cells subset, Eosinophils, Platelets	FcεRII
• CD24	B cells, Granulocytes	
• CD25	Activated T cells	IL-2R α Chain
• CD26	T cell subset, Macrophages	
• CD27	T cell subset	
• CD28	T cell subset	
• CD29	Leukocytes	β1 Integrin
• CD30	Activated T and B cells, Reed-Sternberg cells	Ki-1
• CD31	Platelets, Monocytes, Granulocytes, B cells	PECAM-1, GPIIa
• CD32	Monocytes, Neutrophils, B cells, Eosinophils	FcRII
• CD33	Myeloid progenitor cells, Monocytes	
• CD34	Hematopoietic progenitor cells	
• CD35	Monocytes, B cells, Granulocytes	CR1
• CD36	Monocytes, Platelets	GPIV (IIIb)
• CD37	B cells	
• CD38	Activated T cells, Plasma cells	
• CD39	B cells, Monocytes	
• CD40	B cells, Monocytes, Carcinoma cells	
• CD41	Platelets, Megakaryocytes	GPIIb/IIIa, αIIb Integrin
• CD42a	Platelets, Megakaryocytes	GPIX
• CD42b	Platelets, Megakaryocytes	GPIB-a
CD42c	Platelets, Megakaryocytes	GPIB-b
CD42d	Platelets, Megakaryocytes	GPV
• CD43	T cells, Granulocytes, Monocytes	Leukosialin
• CD44	Leukocytes, Erythrocytes	H-CAM, Pgp-1
CD44R	(Varied-dependent upon exon splicing)	
• CD45	Leukocytes	Leukocyte Common Antigen
• CD45RA	B cells, T cell subset, Monocytes	
• CD45RB	B cells, T cell subset, Monocytes	
CD45RC	B cells, T cell subset	
• CD45RO	B cells, T cell subset, Monocytes	
• CD46	Ubiquitous (Erythrocytes negative)	Membrane Cofactor Protein
• CD47	Ubiquitous	
• CD47R	Broad	
• CD48	Leukocytes	
• CD49a	Activated T cells	VLA-1, α1 Integrin
• CD49b	B cells, Monocytes, Platelets	VLA-2, α2 Integrin
• CD49c	B cells	VLA-3, α3 Integrin
• CD49d	Lymphocytes, Monocytes, Eosinophils	VLA-4, α4 Integrin
• CD49e	T cell subset, Monocytes, Platelets	VLA-5, α5 Integrin
• CD49f	T cell subset, Monocytes	VLA-6, α6 Integrin
• CD50	Leukocytes	ICAM-3
CD51	Platelets	αV Integrin
• CD51/61	Platelets, Osteoclasts, Endothelial cells	
• CD52	Leukocytes	CAMPATH-1
• CD53	Leukocytes	
• CD54	Endothelial cells, various activated cells	ICAM-1
• CD55	Broad	Decay Accelerating Factor
• CD56	NK cells	N-CAM
• CD57	NK cells, T cell subset	HNK-1
• CD58	Broad	LFA-3
• CD59	Broad	Protectin, Homologous Restriction Factor
CD60a	T cell subset, platelets	GD3
• CD60b	T cell subset, activated B cells	9-0-sialyl GD3
CD60c	T cell subset	7-0-sialyl GD3
• CD61	Platelets, Megakaryocytes	β3 Integrin, GPIIIa
• CD62E	Endothelial cells	E-Selectin, ELAM-1

CD	Main Antigen Expression	Other Names
• CD62L	Lymphocytes, Monocytes, NK cells	L-Selectin, LECAM-1
• CD62P	Activated Platelets, Endothelial cells	P-Selectin, LECAM-3
• CD63	Activated Platelets, Monocytes	
• CD64	Monocytes	FcRI
CD65	Neutrophils	
• CD65s	Neutrophils, Monocytes	
• CD66a	Neutrophils	Biliary Glycoprotein
• CD66b	Granulocytes	CGM6
• CD66c	Neutrophils, Colon carcinoma	NCA
• CD66d	Neutrophils	CGM1
• CD66e	Colon epithelial	CEA
CD66f	Placental cells, Fetal cells	Pregnancy Specific Glycoprotein
CD67	See CD66b	
• CD68	Monocytes, Macrophages	
• CD69	Activated T and B cells, NK cells	Activation Inducer Molecule
• CD70	Activated T and B cells, Reed-Sternberg cells	
• CD71	Proliferating cells	Transferrin Receptor
• CD72	B cells	
• CD73	B & T cell subset	ECTO-5' Nucleotidase
• CD74	B cells, Monocytes	Invariant Chain
CD75	B cell subset, Epithelial cells	Lactosamines
• CD75s	B cell subset	α-2, 6-sialylated Lactosamines
• CD77	Activated B cells, Endothelial cells	
• CD79a	B cells	MB-1
• CD79b	B cells	B29
• CD80	Activated B cells	B7-1
• CD81	B cells, T cells, Neutrophils	TAPA-1
• CD82	Leukocytes, Platelets	
• CD83	Dendritic cells, Activated lymphocytes	HB15
• CD84	Monocytes, Platelets, B cells	
• CD85	Dendritic cells, Monocytes, B cells	
• CD86	Monocytes, Activated B cells	B7-2
• CD87	Granulocytes, Monocytes, Activated T cells	UPA Receptor
• CD88	Granulocytes	C5a Receptor
• CD89	Neutrophils, Monocytes	Fcα Receptor
• CD90	Progenitor cell subset, Thymic stromal cells	THY-1
• CD91	Monocytes	α2 Macroglobulin Receptor
• CD92	Neutrophils, Monocytes, Platelets, Endothelial cells	
• CD93	Neutrophils, Monocytes, Endothelial cells	
• CD94	NK cells, T cell subset	
• CD95	Apoptotic cells	FAS
• CD96	Activated T cells	Tactile
• CD97	Activated T cells	CD55 Ligand
• CD98	Monocytes, T cells, B cells	4F2
• CD99	Lymphocytes, Thymocytes	
• CD99R	T cells, NK cells, Myeloid cells	
• CD100	Broad	
• CD101	Granulocytes, Monocytes, Activated T cells	
• CD102	Lymphocytes, Monocytes	ICAM-2
• CD103	Intraepithelial lymphocytes	HML-1, αE Integrin
• CD104	Epithelial cells, Schwann cells	β4 Integrin
• CD105	Endothelial cells	Endoglin
• CD106	Activated endothelial cells	VCAM-1
• CD107a	Activated platelets	LAMP-1
• CD107b	Activated platelets	LAMP-2
CD108	Activated splenic T cells	
CD109	Activated T cells, Platelets, Endothelial cells	Platelet Activation Factor
CD110	Stem cell subset, Megakaryocytes, Platelets (v. weak)	Thrombopoietin Receptor, Mpl
CD111	Stem cell subset, Macrophages, Neutrophils	PRR, Nectin-1
• CD112	Monocytes, Neutrophils, Stem cell subset	PRR2, Nectin-2
CD113	Epithelial cells, Placenta	PRR3, Nectin-3
• CD114	Granulocytes, Monocytes	G-CSF Receptor
• CD115	Monocytes, Macrophages	M-CSF Receptor
• CD116	Monocytes, Neutrophils, Eosinophils	GM-CSF Receptor α Chain
• CD117	Progenitor cells	SCF-Receptor, c-kit
CD118	Epithelial cells	LIF Receptor
• CD119	Monocytes, B cells, Epithelial cells	IFNγ Receptor
• CD120a	Monocytes, Granulocytes	TNF Receptor, Type 1
• CD120b	Monocytes, Granulocytes, Activated lymphocytes	TNF Receptor, Type 2
CD121a	T cells, Fibroblasts, Endothelial cells	IL-1 Receptor, Type 1
CD121b	B cells, Monocytes, Macrophages	IL-1 Receptor, Type 2
• CD122	T cell subset, NK cells	IL-2 Receptor β Chain
• CD123	Progenitor cells, Granulocytes, Monocytes, Megakaryocytes	IL-3 Receptor α Chain
CD124	B cells, T cells, Progenitor cells	IL-4/IL-13 Receptor
CD125	Eosinophils, Basophils	IL-5 Receptor α Chain
• CD126	Plasma cells, Activated B cells	IL-6 Receptor α Chain
CD127	Early B cells, T cells, Progenitor cells, Monocytes	IL-7 Receptor α Chain
CD129	Not assigned	
• CD130	Plasma cells, Activated B cells	gp130 Receptor Subunit for IL-6, IL-11, LIF, OSM LNTF, CT-1
CD131	Myeloid cells	Common β Chain for IL-3, IL-5, GM-CSF Receptor
CD132	Broad	Common γ Chain for IL-2, IL-4, IL-7, IL-9, IL-15 Receptors
CD133	Stem cell subset	AC-133
CD134	Activated T cell subset	OX40
• CD135	Progenitor cell subset	Flt3/Flk2
• CD136	Epithelial cells	Macrophage Stimulating Protein Receptor

CD	Main Antigen Expression	Other Names
• CD137	T cell subset	4-1BB
• CD138	Plasma cells, Epithelial cells	SYNDECAN-1
• CD139	Germinal center B cells	
• CD140a	(Undetectable on most normal cells)	PDGF Receptor α
• CD140b	Endothelial cell subset, Stromal cells	PDGF Receptor β
• CD141	Endothelial cells	Thrombomodulin
• CD142	Activated monocytes and Endothelial cells	Tissue Factor
• CD143	Endothelial cell subset	Angiotensin Converting Enzyme
• CD144	Endothelial cells	VE-CADHERIN
CDw145	Endothelial cells, some stromal cells	
• CD146	Endothelial cells, Activated T cells	MUC18/S-endo
• CD147	Endothelial cells, Monocytes, T cell subset, Platelets, Erythrocytes	Neurothelin/Basigin
CD148	Hematopoietic cells	HPTP-ETA/DEP-1
• CD150	T cell subset, B cell subset, Thymocytes	SLAM
• CD151	Platelets, Endothelial cells	PETA-3
• CD152	Activated T cells	CTLA-4
CD153	Activated T cells	CD30 Ligand
• CD154	Activated T cells, Mast cells, Basophils	CD40 Ligand
• CD155	Monocytes, Macrophages, Thymocytes	Poliovirus Receptor
• CD156a	Monocytes, Macrophages, Granulocytes	ADAM8
• CD156b	Broad	TACE/ADAM17
• CD156c	Broad	ADAM-10
CD157	Monocytes, Neutrophils, Endothelial cells	BST-1
CD158	T cell subset, NK cell subset	
CD158a	NK cells, T cell subset	p58.1
• CD158b	NK cells, T cell subset	p58.2
CD159a	NK cells	NKG2A
CD159c	NK cells	NKG2C
• CD160	T cell subset, NK cell subset	By55
• CD161	NK cells, T cell subset	NKR-P1
• CD162	T cells, Monocytes, Granulocytes, B cell subset	PSGL-1
CD162R	NK cell subset	PEN5
• CD163	Monocytes	KiM4
CD164	T cells, Monocytes, Granulocytes, B cell subset, Progenitor cells	MGC-24
• CD165	Thymocytes, Thymic epithelial cells	AD2/gp37
• CD166	Activated Lymphocytes, Endothelial cells, Fibroblasts	ALCAM, CD6 Ligand
• CD167a	Epithelial cells, Myoblasts	Discoidin Domain Receptor, DDR1
CD168	Thymocyte subset, T cell subset, Monocytes	RHAMM
• CD169	Macrophage subset	Sialoadhesin
CD170	Macrophage subset, Neutrophils	Siglec-5
CD171	Monocytes, T cell subset, B cells	L1
• CD172a	Monocytes, T cell subset, Stem cells	SIRP α
CD172b	Monocytes, Dendritic cells	SIRP β1
• CD172g	T cells, Activated NK cells	SIRP γ, SIRP β2
• CD173	Red cells, Stem cell subset, Platelets	Blood group H type 2
CD174	Stem cell subset, Epithelial cells	Lewis Y
• CD175	Stem cell subset	TN
CD175s	Erythroblasts	Sialyl-Tn
CD176	Stem cell subset	Thomson-Friedrenreich Antigen
• CD177	Neutrophil subset	NB1
• CD178	Activated T cells	Fas Ligand
CD179a	Pro-B cells, Pre-B cells	VPREB1
CD179b	Pro-B cells, Pre-B cells	Lambda 5
• CD180	B cell subset, Mitocytes, Dendritic cells	Rp105/Bgp 95
• CD181	Neutrophils, T cell subset	CXCR1
• CD182	Monocytes, Granulocytes, T cell subset	CXCR2
CD183	Activated T cells, Activated NK cells	CXCR3
• CD184	T cell subset, B cells, Monocytes, Dendritic cells, Endothelial cells	CXCR4
CD185	B cells, T cell subset	CXCR5
• CD186	T cell subset	CXCR6, BONZO
• CD191	T cells, Monocytes, Stem cell subset	CCR1
• CD192	Monocytes, T cell subset, B cells, Basophils, Endothelial cells	CCR2
• CD193	Eosinophils, Basophils, T cell subset, Dendritic cell subset	CCR3
• CD194	T cells, Basophils, Platelets, Monocytes (low)	CCR4
• CD195	Monocytes, T cell subset	CCR5
• CD196	T cell subset, B cells, Dendritic cell subset	CCR6
CD197	T cell subset	CCR7
• CDw198	T cell subset, Monocytes	CCR8
CDw199	T cell subset	CCR9
• CD200	Thymocytes, B cells, Endothelium, Activated T cells	OX-2
CD201	Endothelial cell subset	PROCR, EPCR
• CD202b	Endothelial cells, Stem cells	Tie/Tek
CD203c	Basophils, Megakaryocytes	NPP3
• CD204	Macrophages	Macrophage Scavenger Receptor
• CD205	Dendritic cells, Thymic epithelium	DEC-205
• CD206	Dendritic cell subset, Macrophages, Monocytes	Macrophage Mannose Receptor
CD207	Immature langerhans cells	Langerin
CD208	Interdigitating dendritic cells	DC-LAMP
• CD209	Dendritic cell subset	DC-SIGN
CDw210	T cells, B cells, NK cells, Monocytes, Macrophages	IL-10R
CD212	Activated T cells, Activated NK cells	IL-12Rβ1
CD213a1	B cells, Monocytes, Fibroblasts, Endothelial cells	IL-13Rα1
CD213a2	B cells, Monocytes	IL-13Rα2
CD215	B cells, T cells	IL-15RA
CD217	Broad	IL-17R
• CD218a	Lymphocytes, Neutrophils, Dendritic cell subset	IL-18Rα

CD	Main Antigen Expression	Other Names
CD218b	Lymphocytes, Neutrophils, Dendritic cell subset	IL-18Rβ
• CD220	Broad	Insulin Receptor
• CD221	Broad	IGF-1 Receptor
• CD222	Broad	IGF-2 Receptor, Mannose 6-phosphate Receptor
CD223	Activated T cells, Activated NK cells	LAG-3
CD224	Leukocytes, Stem cells	Gamma Glutamyl Transferase (GGT)
CD225	Broad	Leu-13
• CD226	T cells, NK cells, Monocytes, Platelets	DNAM-1
• CD227	Stem cell subset, Epithelial cells	MUC-1
CD228	Stem cells, Melanoma cells	Melanotransferrin
• CD229	T cells, B cells	Ly-9
• CD230	Broad	Prion Protein
CD231	T cell leukemia, Neuroblastoma	TALLA-1
CD232	Broad	VESPR (Plexin C1)
CD233	Red cells	Band 3
• CD234	Red cells	Duffy
• CD235a	Red cells	Glycophorin A
• CD235b	Red cells	Glycophorin B
• CD236	Stem cell subset, Red cells	Glycophorin C/D
CD236R	Stem cell subset, Red cells	Glycophorin C
• CD238	Stem cell subset, Red cells	Kell
• CD239	Stem cell subset, Red cells	B-CAM, Lutheran
• CD240CE	Red cells	Rhesus 30 CE
• CD240D	Red cells	Rhesus 30 D
CD241	Red cells	Rhesus 50 Glycoprotein
CD242	Red cells	ICAM-4
• CD243	Stem cells	MDR-1
• CD244	NK cells, T cell subset	2B4
CD245	T cell subset	p220/240
CD246	Anaplastic T cell leukemia	Anaplastic Lymphoma Kinase
• CD247	T cells, NK cells	TCR zeta chain
CD248	Stromal fibroblasts, Tumor endothelium	Endosialin
CD249	Endothelial cells, Epithelial cells	Aminopeptidase A
CD250	Reserved for TNF	
CD251	Reserved for lymphotoxin	
CD252	Dendritic cells, Endothelial cells, Activated B cells	OX40 Ligand
• CD253	Activated T cells, Activated B cells, Activated monocytes	TRAIL
• CD254	Activated T cells, Stromal cells, Osteoblasts	TRANCE, RANKL
CD255	Reserved for TWEAK	
• CD256	Myeloid cells	APRIL
• CD257	Myeloid cells	BlyS, BAFF
• CD258	Activated T cells, Immature dendritic cells	LIGHT
CD259	Reserved for NGF	
CD260	Reserved for lymphotoxin beta receptor	
• CD261	Leukocytes (very weak), Tumor cells	TRAIL-R1, APO2
• CD262	Broad	TRAIL-R2, DR5
• CD263	Broad (weak)	TRAIL-R3, DcR1
• CD264	Broad	TRAIL-R4, DcR2
CD265	Broad, Osteoclasts, Dendritic cells	RANK, TRANCE-R
• CD266	HUVEC	TWEAK-R
• CD267	B cells (weak), Activated T cells	TACI
• CD268	B cells, T cells (weak)	BAFF-R
CD269	B cells	BCMA
• CD270	Broad	TNFRSF14, LIGHTR
• CD271	Neurons, Stromal cells, Follicular dendritic cells	NGFR
• CD272	Th1 cells	BTLA
• CD273	Dendritic cells, Activated T cells, Activated monocytes	B7-DC, PD-L2
• CD274	Dendritic cells, Activated T cells, Activated monocytes	B7-H1, PD-L1
• CD275	Dendritic cells, B cells (weak), T cells (weak), Activated monocytes	ICOSL
• CD276	Dendritic cell subset, Activated monocytes	B7-H3 (long)
CD277	T cells, B cells, NK cells, Monocytes, Dendritic cells, Stem cells	BT3.1, BTF5
CD278	Activated T cells	ICOS, AILIM
• CD279	Activated T cells, Activated B cells	PD1
CD280	Myeloid progenitors, Fibroblasts, Endothelial cell subset, Macrophage subset	Endo180, TEM22
• CD281	Monocytes, Neutrophils	TLR1, TIL
• CD282	Monocytes, Neutrophils	TLR2, TIL4
• CD283	Fibroblasts, Dendritic cells	TLR3
• CD284	Monocytes (weak)	TLR4
CD285	Reserved for TLR5	
CD286	Monocytes, Dendritic cells, Endothelial cells	TLR6
CD287	Reserved for TLR7	
• CD288	Peripheral blood leukocytes, Monocytes, Dendritic cells	TLR8
• CD289	Dendritic cell subset, Activated B cells	TLR9
• CD290	B lymphocytes, Dendritic cells	TLR10
CD291	Reserved for TLR11	
• CD292	Bone progenitor cells	BMPR1A
CDw293	Bone progenitor cells	BMPR1B
• CD294	Th2 cells, Eosinophils, Basophils	CRTH2, GPR44
CD295	Broad, Monocytes (weak)	LEPR, OBR
CD296	Epithelial cells, Muscle, T cell subset, Myeloid cell subset	ART1
CD297	Red cells, Erythroblasts, Activated monocytes	ART4, Dombrock Blood Group
CD298	Broad	Na, K ATPase β3 Subunit
CD299	Endothelial cell subset	DC-SIGNR, L-SIGN
• CD300a	Dendritic cells, Monocytes, Lymphocyte subsets	CMRFH
CD300c	Dendritic cells, Monocytes, Lymphocyte subsets	CMRF35A
CD300e	Monocytes	CMRF35L1
CD301	Immature dendritic cells	MGL, CLECSF14
CD302	Granulocytes, Monocytes, Dendritic cells	DCL1

CD	Main Antigen Expression	Other Names
CD303	Dendritic cell subset	BDCA2
CD304	Dendritic cell subset	BDCA4, Neuropilin
• CD305	NK cells, T cells, B cells, Monocytes	LAIR-1
CD306	Putative secreted protein	LAIR-2
CD307a	B cells	FCRL1
CD307b	B cell subset	FCRL2
CD307c	B cells, T cells (weak)	FCRL3
CD307d	B cell subset	FCRL4
CD307e	B cell subset	FCRL5
CD308	Reserved for VEGFR1	
CD309	Endothelial cells, Stem cell subsets	VEGFR2, FLK1, KDR
CD310	Reserved for VEGFR3	
CD311	Reserved for EMR1	
• CD312	Neutrophils, Monocytes, DC subset, Macrophages, Activated lymphocytes	EMR2
CD313	Reserved for EMB3	
• CD314	NK cells, T cell subset	NKG2D
CD315	B cell subset, Activated monocytes	CD9P1, SMAP6
CD316	B cells, T cells, NK cells (weak)	EW12, IgSF8
CD317	B cells, T cells, Monocytes, NK cells, Dendritic cells	BST2, HM1,24
• CD318	Stem cell subset	CDCP1, SIMA135
• CD319	NK cells, T cell subset, B cell subset, Dendritic cell subset	CRACC, SLAMF7
CD320	Follicular dendritic cells	8D6
• CD321	Broad	JAM-1, F-11R
• CD322	Endothelial cells, Monocytes, B cells, T cell subset	JAM-2, VE-JAM
CD323	Reserved for JAM-3	
• CD324	Epithelial cells, Stem cells, Erythroblasts	E-Cadherin, Cadherin 1
CD325	Neurons, Endothelial cells, Stem cells	N-Cadherin, Cadherin 2
• CD326	Epithelial cells	Ep-CAM
CD327	B cells, Trophoblasts	Siglec6, OB-BP1
CD328	NK cells, Monocytes,