BD Biosciences Human CD Marker Chart

Reviewed by HLDA[1]

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CD	Alternative Name	Ligands & Associated Molecules	T Cell	B Cell	Dendritic Cell	NK Cell	Stem Cell/Precursor	Macrophage/Monocyte	Granulocyte	Platelet	Erythrocyte	Endothelial Cell	Epithelial Cell
CD1a	R4, T6, Leu6, HTA1	β-2-Microglobulin, CD74	+	+	+	−		+	−	−	−		
CD1b	R1, T6m Leu6	β-2-Microglobulin	+	+	+	−		+	−	−	−		
CD1c	M241, R7, T6, Leu6, BDCA1	β-2-Microglobulin	+	+	+	−		+	−	−	−		
CD1d	R3G1, R3	β-2-Microglobulin, MHC II	+	+	+	−			−	−	−		+
CD1e	cR2	β-2-Microglobulin			+				−	−	−		
CD2	E-rosette R, T11, LFA-2, Leu5	CD58, CD48, CD59, CD15, LFA-3	+	+		+			−	−	−		
CD3	T3, Leu4	TCR	+	−		−	−	−	−	−	−	−	−
CD3d	δ Polypeptide (TiT3 complex), CD3 delta chain	TCR	+										
CD3e	T3e, CD3 epsilon chain	TCR	+										
CD3g	T3G, CD3 gamma chain	TCR	+										
CD4	L3T4, W3/25, T4, Leu3a	MHC Class II, gp120, IL-16, Lck	+	−		−	−	+	+	−	−	−	−
CD5	T1, Tp67, Leu-1, Ly-1	CD72, BCR, gp35-37, ZAP-70, TCR, CD21	+	+		−		−	−	−	−		
CD6	T12, TP120	gp40, gp90, CD166 (ALCAM)	+	+				−	−	−	−		
CD7	gp40, TP41, Leu9	PI3-Kinase	+	−		+	+	−	−	−	−		
CD8a	Leu2, T8, Lyt2,3	MHCI, Lck	+	−		+	−	−	−	−	−	−	−
CD8b	CD8, Leu2, Lyt3	MHCI, Lck	+	−		−	−	−	−	−	−	−	−
CD9	p24, DRAP-1, MRP-1, Tspan-29	CD63, CD81, CD82, CD41/CD61, HLA-DR, Integrin β1, PI4-Kinase	+	+			−	+	+	+		+	+
CD10	CALLA, NEP, gp100, EC 3.4.24.11, MME		−	+	−	−	−	−	+	−		+	
CD11a	LFA-1α, Integrin αL	ICAM-1, 2, 3, 4, CD18	+	+		+		+	+		−	−	
CD11b	Integrin αM, CR3, Mo1, C3niR, Mac-1	iC3b, Fibrinogen, ICAM-1, 2, Factor X	+	+		+		+	+		−	−	
CD11c	Integrin αX, p150,95, AXb2, CR4	iC3b, Fibrinogen, ICAM-1, 4	+	+	+	+		+	+		−	−	
CD11d	Integrin αD, ITGAD, ADB2	ICAM3, VCAM1						+					
CDw12	p90-120		−	−		+	+	+	+	−	−		
CD13	ANPEP, Aminopeptidase N, AAP, APM, LAP1, P150, PEPN, APN, gp150, EC 3.4.11.2	NGR, HNF1A, DNAK, NAALADL1, MEP1B, VCP, Corona virus Receptor	+	−		−	+	+	+	−	−	+	+
CD14	LPS-Receptor	Endotoxin, Lipopolysaccharide (LPS), TLR4, LBP, LY96, TLR2	−	−				+	+				
CD15	X-Hapten, Lewis X, SSEA-1, 3-FAL, FUT4	Selectins	−	−		−	+	+	+	−	−	−	
CD16	FCRIIIA, CD16a, Leu11, FcγRIII	IgG Fc	+	−	+	+		+	+	−	−		
CD16b	FCRIIIB, FcγRIIIb	IgG Fc							+	−	−		
CD17	Lactosylceramide, LacCer		+	+	+	−		+	+	+	−	+	+
CD18	Integrin β2, CD11a, b, c β-subunit	CD11a, b, c	+	+	+	+		+	+	+	−	−	
CD19	B4	CD21, CD81, CD225, Leu-13, Lyn, Fyn, Vav, PI3-kinase	−	+	+	−	+	−	−	−	−	−	−
CD20	B1, Bp35	Lyn, LCK, Fyn, Cell surface protein: 28-30,180-200,50-60 kDa	−	+	−	−		−	−	−	−	−	−
CD21	CR2, EBV-R, C3dR	C3d, CD23, CD19, CD81, Leu13	+	+	+	−	+	−	−	−	−	−	+
CD22	BL-CAM, Siglec-2	p72sky, p53/56lyn, SHP1, PI3-kinase, CD45, PLCγ1	−	+	−	−	+	−	−	−	−	−	−
CD23	FceRII, B6, BLAST-2, Leu-20	IgE, CD21, CD11b, CD11c	+	+	+	−		+	+	+	−	−	+
CD24	BBA-1, HSA	CD62P (P-Selectin)	−	+	−	−	−	−	+	−	−	−	+
CD25	Tac antigen, IL-2Rα, p55, TCGFR	IL-2	+	+	−	+	−	+	−	−	−	−	−
CD26	DPP IV ectoenzyme, ADA binding protein, ADCP2, TP103	Adenosine deaminase, Collagen, CD45	+	+	−	+	−	+	−	−	−	−	+
CD27	T14, S152, TP55, TNFRSF7	CD70, TRAF5, TRAF2	+	+	−	+	−	−	−	−	−	−	−
CD28	Tp44, T44	CD80, CD86, PI3-kinase	+	−	−	−	−	−	−	−	−	−	−
CD29	Platelet GPIIa, Integrin β1, GP, ITGB1, FNRB, fibronectin receptor beta subunit, VLA-4beta, VLAB	VCAM-1, MAdCAM-1	+	+	+	+	+	+	+	+		+	+
CD30	Ber-H2, Ki-1, CD30L receptor, TNFRSF8, TNR8	CD153, TRAF1, 2, 3, 5	+	+		+	+	+	−	−	−	+	−
CD31	PECAM-1, endoCAM, Platelet endothelial cell adhesion molecule, PECA1	CD38, Glycosaminoglycans (GAGs), Integrin αvβ3	+	+		+		+	+	+	−	+	
CD32a	FCγRII, Fc-γ receptor 2, FCGR2A, Low affinity immunoglobulin γ Fc receptor II	IgG	−	+		−		+	+	+	−	−	
CD32b	FCG2, FCGR2B, IGFR2	IgG, INPP5D/SHIP1	+	+		−		+	+	+	−	+	
CD32c	FCG2, FCGR2C, IGFR2	IgG				+		+	+				
CD33	gp67, SIGLEC-3, Sialic acid-binding Ig-like lectin 3, Myeloid cell surface antigen CD33	Sugar chains containing sialic acid, α-2,6-linked Sialic acid	−	−	+	−	+	+	+	−	−	−	−
CD34	gp105-120, Hematopoietic progenitor cell antigen 1 (HPCA1)	L-Selectin, MadCAM-1, CRKL	−	−	−	−	+	−	−	−	−	+	
CD35	CR1, C3b/C4b receptor, Complement receptor 1, Immune Adherence receptor	C3b, C4b, iC3, iC4	+	+	+	−		+	+	−	+		
CD36	Platelet glycoprotein 4, Glycoprotein IIIb (GpIIIb), Glycoprotein IV (GPIV), PASIV, Fatty acid translocase (FAT), SCARB3, GP88	Thrombospondin, Collagen I, IV, V, Long-chain fatty acids	−	−	+	−	+	+	+	+	−	+	−
CD37	gp52-40, Leukocyte antigen CD37, Tetraspanin-26, TSPAN26, GP52-40	CD53, CD81, CD82, MHC II	+	+		−		+	+	−	−		
CD38	ADP-ribosyl cyclase, T10, Cyclic ADP-ribose hydrolase 1	CD31, Hyaluronic acid, CD3/TcR complex, CD16, HLA Class II	+	+	+	+	+	+	−				
CD39	Ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1), ATPdehydrogenase, NTPdehydrogenase-1, Ecto-ATPase 1	ADP/ATP	+	+	+	+		+		−		+	+
CD40	Bp50, MGC9013, TNFRSF5, Tumor necrosis factor receptor superfamily member 5, CD40L, CDw40	CD154, CD40L, TRAP	−	+	+	−	+	+	−		−	+	+
CD41	GPIIb, Integrin αIIb, Platelet membrane glycoprotein IIb, ITGA2B, Integrin α2b, Human Platelet Antigen-3 (HPA-3)	Fibrinogen, Fibronectin, von Willebrand factor (vWF)	−	−	−	−	+	−	−	+	−	−	−
CD42a	GPIX, GP9, Platelet glycoprotein IX	von Willebrand factor (vWF), Thrombin, CD42b,c,d	−	−	−	−	+	−	−	+	−	−	−
CD42b	GPIbα, Platelet glycoprotein Ib α	von Willebrand factor (vWF), Thrombin, CD42a, c, d	−	−	−	−	+	−	−	+	−	−	−
CD42c	GPIbβ, Platelet glycoprotein Ib β	von Willebrand factor (vWF), Thrombin, CD42a, b, d	−	−	−	−	+	−	−	+	−	−	−
CD42d	GPV, Platelet glycoprotein V	von Willebrand factor (vWF), Thrombin, CD42a, b, c	−	−	−	−	+	−	−	+	−	−	−
CD43	Sialophorin, Leukosialin, Galactoglycoprotein, SPN, GPL115, SPN, LSN	Hyaluronan, EZR, Moesin	+	+		+	+	+	+	+	−		
CD44	ECMRII, H-CAM, Pgp-1, Phagocytic glycoprotein I, Extracellular matrix receptor III, GP90 Lymphocyte homing/adhesion receptor, Hyaluronate receptor, gp90 homing receptor, CDw44, Epican, PGP-1	Hyaluronan, Ankyrin, Fibronectin, MIP1β, Osteopontin, Collagen, Matrix metalloproteinases (MMPs)	+	+		+		+	+	−	+	+	+
CD45	Leukocyte Common Antigen (LCA), T200, B220, Ly5, Protein tyrosine phosphatase receptor type C (PTPRC)	p56lck, p59fyn, Src kinases	+	+	+	+	+	+	+	−	−	−	−
CD45RA	PTPRC	p56lck, p59fyn, Src kinases	+	+	+	+	+	+	+	−	−	−	−
CD45RB	PTPRC	p56lck, p59fyn, Src kinases	+	+	+	+	+	+	+	−	−	−	−
CD45RC	PTPRC	p56lck, p59fyn, Src kinases	+	+	+	+	+	+	+	−	−	−	−
CD45RO	CD45R, PTPRC, LCA, Leukocyte common antigen, GP180, LY5, T200	p56lck, p59fyn, Src kinases	+	+	+	+	+	+	+	−	−	−	−
CD46	Membrane Cofactor Protein (MCP), Trophoblast leukocyte common antigen, TRA2.10, TLX	SCR2/3/4, Serum Factor 1 protease, CD9, CD29, CD151	+	+		+		+	+	+		+	+
CD47	gp42, IAP, OA3, Neurophilin, MER6	SIRP, CD61, Thrombospondin	+	+		+		+	+	+	+	+	+
CD48	Blast-1, Hulym3, BCM-1, OX-45, MEM-102	CD2, lck, fyn, CD229, CD244	+	+	+	+	+	+	+	−	−		
CD49a	VLA-1α, Integrin α1	Collagen, Laminin	+	−	+	+		+	−	−	−	−	
CD49b	VLA-2α, Integrin α2, gPIa, Integrin α2 chain, ITGA2, Platelet GPIa, Collagen receptor, BR	Collagen, Laminin, MMP-1	+	+		+		+	−	+	−	+	+
CD49c	VLA-3α, Integrin α3, GAPB3, Galactoprotein B3, MSK18, Very Common Antigen-2 (VCA-2)	Collagen, Laminin, CD9	+	+		−		+			−	+	+
CD49d	VLA-4α, Integrin α4, Integrin α4 chain, Integrin alpha 4, ITGA4, IA4, alpha 4 subunit of VLA-4	CD106, MAdCAM, Fibronectin, Paxillin	+	+	+	+	+	+	+	−	−	+	
CD49e	VLA-5α, Integrin α5, Fibronectin receptor	Fibronectin, Invasin, Fibrinogen	+		+	+	+	+		+	+	+	+
CD49f	VLA-6α, Integrin α6, gpl, TGA6, ITA6	Laminin, Invasin	+				+	+		+		+	+
CD50	ICAM-3	LFA-1, Integrin αd/β2	+	+		+	+	+	+	−	−	+	
CD51	Integrin αv, VNR-α, Vitronectin-Rα	Fibrinogen, Vitronectin, MMP-2, vWF, TSP						+	−	+		+	
CD52	CAMPATH-1, HE5, Epididymal secretory protein E52		+	+	+	+		+	+	−	−		+
CD53	MOX44, TSPAN25, Tetraspanin-25	VLA-4, HLA-DR, Integrins	+	+	−	+	+	+	+	−	−		−
CD54	ICAM-1, intercellular adhesion molecule 1, BB2, P3.58	LFA-1, Mac-1, Rhinovirus	+	+		+		+				+	
CD55	Decay Accelerating Factor for Complement (DAF), CR, CROM, TC	SCR, CD97, Echoviruses	+	+		+	+	+	+	+	+	+	+
CD56	Leu-19, NKH-1, Neural Cell Adhesion Molecule (NCAM)	NCAM-1, Heparin sulfate	+			+							
CD57	HNK1, Leu-7, β-1,3-glucuronyltransferase 1, Glucuronosyltransferase P, galactosylgalactosylxylosylprotein 3-β-glucuronosyltransferase 1	L-Selectin, P-Selectin, Laminin	+			+							
CD58	LFA-3	CD2, LFA-2	+	+	+			+	+		+	+	+
CD59	1F5Ag, H19, Protectin, MACIF, MIRL, P-18	C8-α, C9, lck, fyn	+			+		+	+		+		
CD60a	GD3		+	+				+	+	+	−		
CD61	GP IIIa, Integrin β3	Fibrinogen, PTK2, ITGB3BP, TLN1 and CIB1						+		+		+	
CD62E	E-Selectin, ELAM-1, LECAM-2	Sialyl Lewis x, a, CLA, CD162										+	
CD62L	L-Selectin, LAM-1, LECAM-1, MEL-14, Leu8, TQ1	CD34, GlyCAM-1, MAdCAM-1	+	+		+		+	+				
CD62P	P-Selectin, GMP-140, PADGEM	CD162, CD24								+		+	
CD63	LIMP, MLA1, gp55, NGA, LAMP-3, ME491, OMA81H, TSPAN30, Granulophysin, Melanoma 1 antigen	VLA-3, VLA-6, CD81, CD9, PI4-kinase, CD117, CD82	+	+	−	+		+	+	+	−	+	+
CD64	FcgRI, Fc-γ Receptor 1, High affinity immunoglobulin γ Fc Receptor I, FcgRIA	IgG	−	−	+	−	+	+	+	−	−	−	−
CD65	Ceramide-dodecasaccharide, VIM2, Fucoganglioside (Type II)	CD62E (E-Selectin)	−	−				+	+				
CD65s	Sialylated poly-N-acetyllactosamine, Sialylated-CD65, VIM2, VIM-2, M2	CD62E (E-Selectin)	−	−				+	+				
CD66a	CD66, NCA-160, BGP (Biliary glcoprotein), BGP1, BGPI, CEACAM1	CD62E, CD66c, CD66e, Src kinases	−	−		−			+	−	−	−	+
CD66b	CD67, CGM6, NCA-95, CEACAM8	CD66c, e, Src kinases	−	−		−			+	−	−	−	
CD66c	NCA, NCA-50/90,CEAL, CEACAM6	CD62E, Galectins, CD66a, b, c, e, Src kinases	−	−		−			+	−	−	−	+
CD66d	CGM1, CEACAM3		−	−		−			+	−	−	−	
CD66e	CEA CEACAM5	CD66a, c, e	−	−		−				−	−	−	+
CD66f	B1G1, CD66f, DHFRP2, FLJ90598, FLJ90654, PBG1, PSBG1, PSGGA, PSGIIA, SP1 SP-1, PSBG1, B1G1, PBG1, PSGGA		−	−		−				−	−	−	+
CD68	gp110, Macrosialin, SCARD1, Macrophage antigen CD68	LDL	+	+	+		+	+	+	−	−		
CD69	AIM, EA 1, MLR3, gp34/28, VEA, CLEC2C, BL-AP26, Early activation antigen CD69		+	+		+		+	+	+			
CD70	TNFSF7, CD27LG, CD27L, Ki-24	CD27 ligand	+	+	−	−	−	−	−	−	−	−	−
CD71	TFRC, T9, Transferrin receptor, TFR, TRFR	Transferrin	−	−	−	−	+				−	+	
CD72	Ly-19.2, Ly-32.2, Lyb2	CD5		+		−	+	+	−	−	−		
CD73	Ecto-5'-nuclotidase, NT5E, E5NT, NT5, NTE, eN, eNT	AMP	+	+	+	−	+	−	−	−	−	+	+
CD74	DHLAG, HLADG, Ia-γ, Ii, invariant chain	HLA-DR, CD44	+	+	+			+				+	+
CD75	ST6GAL1, MGC48859, SIAT1, ST6GALL, ST6N, ST6 β-Galactosamide α-2,6-sialyltranferase, Sialo-masked lactosamine, Carbohydrate of α2,6 sialyltransferase	CD22		+		−	−	+	−	−	+	−	−
CD75S	α2,6 Sialylated lactosamine	CD22 (proposed)	+	+		−	−	+	+	−	+	+	+
CD77	A14GALT (α1,4-Galactosyltransferase), A4GALT1, Gb3S, P(k), P1, PK A4GALT, Pk antigen, BLA, CTH/Gb3A4GALT1, Gb3S, P(k), P1, PK	Shiga toxin, Verotoxin 1, CD19	−	+		−	−	−	−	−	−	+	+
CD79a	IGA (Immunoglobulin-associated α), MB-1	Ig, CD5, CD19, CD22, CD79b	−	+		−	−	−	−	−	−	−	−
CD79b	IGB (Immunoglobulin-associated β), B29	Ig, CD5, CD19, CD22, CD79a	−	+		−	−	−	−	−	−	−	−
CD80	CD28LG, CD28LG1, L AB7, B7, B7-1, BB1, T-lymphocyte activation antigen CD80	CD28, CD152 (CTLA-4)	+	+	+	−	−	+	−	−	−	−	−
CD81	TAPA1, S5.7	Leu-13, CD19, CD21	+	+	+	−	+	+		−	−	+	+
CD82	4F9, C33, IA4, KAI1, R2, ST6, SAR2, GR15, Tspan-27	MHC-I, MHC-II, CD4, CD8, Integrin β1	+	+		+	+	+	+	+	−	+	+
CD83	HB15, BL11		−	+	+	−	−	−	−	−	−	−	−
CD84	LY9B, SLAMF5, p75, GR6, hly9-β	CD84	+	+	+	+	−	+	−	+	−	−	−
CD85A	ILT5, LIR3, HL9, LILRB3 (Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3, LIR-3, MGC138403, PIRB, XXbac-BCX105G6.7	HLA class I	+	−	+	−	+	+	+	−	−	−	−
CD85C	LILRB5 (Leukocyte immunoglobulin-like receptor, subfamily B)(with TM and ITIM domains), member 5, LIR8					+		+					
CD85D*	LILRB2 (Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2, LILRB2, ILT4, LIR2, MIR10, MIR-10	HLA class I	−	−	+	−	−	+	+	−	−	−	−
CD85E	LILRA3 (Leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3, HM31, HM43, ILT6, LIR-4, LIR4,e3			+	+	+		+					
CD85F	XXbac-BCX403H19.2, CD85, CD85F,LIR9, ILT11, LILRB7 (Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 7							+					
CD85G	LILRA4 (Leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 4, ILT7, MGC129597, MGC129598				+			+	+				
CD85H	LILRA2 (Leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2, ILT1, LIR7, LIR-7, XXbac-BCX85G21.2, ILT-1												
CD85I	LILRA1 (Leukocyte immunoglobulin-like receptor), subfamily A (with TM domain), member 1, LIR-6, LIR6, MGC126563			+				+					
CD85J*	LILRB1 (Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1, FLJ37515, ILT2, LIR-1, LIR1, MIR-7, MIR7	HLA class I	+	+	+	+	−	+		−	−	−	−
CD85K*	LILRB4 (Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 4, ILT3, LIR-5, HM18, LIR5, LILRB5	HLA class I	−	−	+	−	+	+	+	−	−	−	−
CD85L	LILRP1 (Leukocyte immunoglobulin-like receptor pseudogene 1), ILT9, LILRA6P		+	+	+	+		+					
CD85M	LILRP2 (Leukocyte immunoglobulin-like receptor pseudogene 2), ILT10, LILRA5		+	+	+			+					
CD86	B7-2/B70, CD28LG2, LAB72, MGC34413	CD28, CD152 (CTLA-4)	+	+	+	−	−	+	−	−	−	+	−
CD87	Upar, PLAUR, URKR	uPA, Pro-UPA, Vitronectin	+	−		+	−	+	+	−	−	+	−
CD88	C5R1, C5aR, C5AR, C5A	C5a/C5a(desArg), Anaphylatoxin	−	−	+	−	−	+	+	−	−	+	+
CD89	FCAR	IgA1, IgA2	−	−		−		+	+	−	−	−	−
CD90	Thy-1, CDw90	CD45, lck, fyn, P100	−	−		−	+	−	−	−	−	+	−
CD91	LRP1, α2M-R, α2MR, APOER, APR, LRP	RAP, α2M, apoE, Lactoferrin, LDLs	−	−		−		+	−	−	−	−	+
CD92	SLC44A1, CTL1, CHTL1, RP11-287A8.1, p70		+	+				+	+	−	−	+	+

+ Positive* − Negative

CD	Alternative Name	Ligands & Associated Molecules	T Cell	B Cell	Dendritic Cell	NK Cell	Stem Cell/Precursor	Macrophage/Monocyte	Granulocyte	Platelet	Erythrocyte	Endothelial Cell	Epithelial Cell
CD93	C1QR1,C1qRP, MXRA4, C1qR(P), Dj737e23.1, GR11		−	−	−	−	−	+	+	−	−	+	−
CD94	KLRD1, Kp43	HLA class I, NKG2-A, p39	+	−		+		−	−	−	−	−	−
CD95	CD178, FASLG, APO-1, FAS, TNFRSF6, CD95L, APT1LG1, APT1, FAS1, FASTM, ALPS1A, TNFSF6, FASL	CD178 (Fas ligand)	+	+		+		+	+	−	−		
CD96	TACTILE, MGC22596		+	−		+		−	−	−	−		
CD97	TM&LN1, BL-KDD/F12	CD55 (DAF)	+	+	+	+		+	+	−	−		
CD98	SLC3A2, 4F2, 4F2HC, 4T2HC, MDU1, NACAE, FRP-1, RL-388	Actin	+	+		+		+	+	+	−	+	+
CD99	MIC2, E2 antigen, MIC2X, MIC2Y,HBA71, MSK5X		+	+		+	−	+	−	+	+	+	+
CD99R	CD99 Mab restricted		+	−		+	−	+		−			
CD100	SEMAJ, coll-4, C9orf164, FLJ33485, FLJ34282, FLJ39737, FLJ46484, M-sema-G, MGC169138, MGC169141, SEMA4D, SEMAJ	CD45, Serine kinase	+	+	−	+	−	+	+	−	−	−	
CD101	IGSF2, P126, V7, BA27, BPC#4, P126, V7-LSB		+	−	+	−		+	+	−	−		
CD102	ICAM-2, Ly60	LFA-1, CD11b/CD18, Integrin αLβ2	+	+		+		+	+		−	+	
CD103	HML-1, Integrin αE, ITGAE, OX62, HML1	E-Cadherin, Integrin β7	+	−		−		−	−	−	−	−	
CD104	Integrin β4, TSP1180, ITGB4, TSP-180	Laminins (I,II,IV,V), CD49F, Integrin α6	−	−		−	+	−	−	−	−	+	+
CD105	Endoglin, HHT1, ORW, SH-2	TGF-β1, TGF-β3	−	−		−	+	+	−	−	−	+	
CD106	VCAM-1, INCAM-100	Integrin α4β1, VLA-4	−	−	−	−		−	−	−	−	+	
CD107a	LAMP-1, LAMPA, CD107a, LGP120		+	−		−			+	+	−	+	
CD107b	LAMP-2, LAMPB		+	−		−			+	+	−	+	
CD108	SEMA7A, JMH blood group antigen	CD232, Tyrosine kinases	+	+					−	−	+		
CD109	8A3, E123 7D1,150kD TGF-β-1-binding protein, Platelet-specific Gov antigen		+	−		−	+	+	−	+	−	+	
CD110	TPO-R, MPL, C-MPL	TPO, JAK2	−	−	−	−	+	−	−	+	−	+	+
CD111	PVRL1, HveC, PRR1, Nectin1, HIgR,CLPED1	Nectin3, Afadin gD	−	−			+	+	−	+	+	+	+
CD112	HveB, PRR2, PVRL2, Nectin2	PRR3, Afadin, CD112	−				+	+	−	+	−	+	+
CD113	PVRL3, Nectin3, PRR3	Afadin, MLLT4, PARD3											+
CD114	CSF3R, G-CSFR, HG-CSFR	G-CSF, Jak1, Jak2	−	−		−	+	+	+	+	−	+	
CD115	c-fms, CSF-1R, M-CSFR, FIM2, FMS	CSF-1, Phosphotyrosine binding proteins	−		−	−	+	+	−	−	−		
CD116	GM-CSFRα, CDw116, CSF2R, CSF2RAX, CSF2RAY, CSF2RX, CSF2RY, GM-CSF-R-α, GMCSFR, GMR, MGC3848, MGC4838	GM-CSF, CD131	−	−	+	−		+	+	−	−		
CD117	c-KIT, SCFR, PBT	SCF, MGF, KL, PI3-kinase	−	−	−	−	+	−	−	−	−	−	
CD118	LIFR, gp190, SJS2, STWS, SWS	IFN-α, IFN-β											+
CD119	IFNγR, IFNγRa	IFNγR, IFNγR1	+	+		+		+	+		−	+	
CD120a	CD120a, FPF, MGC19588, TBP1, TNF-R, TNF-R-I, TNF-R55, TNFAR, TNFR1, TNFR55, TNFR60, p55, p55-R, p60	TNF, TRADD, TRAF, RiP, Ltα	+	+	+	+		+	+		−	+	+
CD120b	TNFRII, p75, TNFR p80	TNF, TRADD, TRAF, RiP, LTα	+	+	+	+		+	+		−	+	+
CD121a	Type 1 IL-1R,CD121A, D2S1473, IL-1R-α, IL1R, IL1RA, P80	IL-1α and IL-1β, IL1RA	+	−	−	−		+	−	−	−	+	−
CD121b	Type 2 IL-1R	IL-1β, IL-1α, IL1RA	+	+				+	−	−	−	−	−
CD122	IL2Rβ, p70-75	IL-2, IL-15, CD25, CD132, Syk, Lck, Jak1, Stat5	+	+		+		+	−	−	−	−	
CD123	CD123, IL3R, IL3RAY, IL3RX, IL3RY, MGC34174, hIL-3Ra	IL-3, CD131	−	−	+		+	−	+			+	
CD124	IL-4Rα	IL-4, IL-13, CD132, Jak1, Fes, Stat6, IRS-2	+	+		−	+	+	−	−	−	−	+
CD125	IL-5Rα	CDw125, HSIL5R3, IL5R, MGC26560	−	+		−		−	+	−	−	−	
CD126	IL-6Rα	IL-6, CD130	+	+	−	−	+	−	−				
CD127	p90, IL-7R, IL-7Rα	IL-7, CD132, fyn, lyn, Jak1, PI3-kinase, Lck	+	−			+	+	−	−	−	−	
CD129	IL-9Rα	IL-9	+										+
CD130	gp130, IL6ST, IL6-β or CD130	Oncostatin M, LIF, IL-6, IL-11, CNF	+	+		+	+	+	+	−		+	
CD131	CSF2RB, IL3RB, IL5RB, CDw131	CD123, CD125, CD116, JAK2, Shc, Grb2	−	−		−	+	+	+				
CD132	Common γ chain, IL-2Rγ	CD25, CD122, CD124, CD127, IL-9R, JAK3, JAK1, Syk, lck	+	+		+		+	+	−			
CD133	AC133, PROML1, Prominin 1, Hematopoietic stem cell antigen		−	−	−	−	+	−	−	−	−	+	+
CD134	OX40, TNFRSF4	OX40 ligand	+		−			−					
CD135	Flt3, Flk2, STK1	FL (Flt3 ligand)	−	−	−	−	+	−	−	−	−		
CD136	MSP-R, RON, p158-ron	MSP, HGFI, Shc, PLC-γ						+					+
CD137	4-1BB, ILA, TNFRSF9	4-1BB ligand	+	+		−		+	−				+
CD138	Syndecan-1, Heparan sulfate proteoglycan	Collagen I, III, V, Fibronectin, TSP	−	+		−	+	−	−	−	−	+	+
CD139	None		−	+	+	−	−	+	+		+		
CD140a	PDGF α Receptor	PDGF	−	−		−		−	−	+	−	+	
CD140b	PDGF β Receptor	PDGF	−	−		−		−	−	−	−	+	
CD141	Thrombomodulin, Fetomodulin	Thrombin, Protein C, TAFI	−	−		−	−	+	+	+		+	+
CD142	Tissue factor, Thromboplastin, F3	Factor VIIa, Factor Xa/TFPI	−	−		−		+	−	−	−	+	+
CD143	ACE, Peptidyl dipeptidase A, Kininase II, DCP, DCP1	ANG-1, Bradykinin	−	−		−		+	−	−	−	+	+
CD144	VE-Cadherin, Cadherin-5	β-Catenin, p120 CAS, Plakoglobin	−	−	−	−		−	−	−	−	+	−
CDw145	None					−		−	−	−	−	+	+
CD146	Muc 18, S-endo, MCAM, Mel-CAM		+	−		−		−	−	−	−	+	
CD147	Basigin, EMMPRIN, M6, OX47, TCSF		+	+		+		+	+	+	+	+	
CD148	HPTP-η, p260, DEP-1, SCC1		+		+			+	+	+		−	
CD150	SLAM, IPO-3	Tyrosine phosphatase CD45, CD150	+	+	+	−		−	−	−	−	+	
CD151	PETA-3, SFA-1	Integrins α3, α6	−	−	−		+	+	−	+		+	+
CD152	CTLA-4	CD80, CD86, PI3-kinase, PTP1D	+	+	−	−		−	−	−			
CD153	CD30L, TNSF8	CD30	+		−			+	+				
CD154	CD40L, gp39, TRAP-1, T-BAM, IMD3	CD40	+	−	−	−					−	−	
CD155	PVR, PVS, TAGE4, HVED				−			+		−			
CD156a	CD156, ADAM8, MS2	Myeloid						+	+				
CD156b	TACE, ADAM17, cSVP	pro-TNF, pro-TGFα, MAD2	+	−	+	−	−	+	+	−	−	+	−
CD156C	ADAM10, MADM, kuz							+					
CD157	Mo5, BST-1	NAD, Cyclic ADP-ribose			+		+	+	+			+	
CD158a	KIR2DL1, p58.1, NKAT1	HLA-Cw4, 2, 5, 6	+			+							
CD158b1	KIR2DL2, p58.2, NKAT6	HLA-Cw3, 1, 7, 8	+			+							
CD158b2	KIR2DL3, p58.3, NKAT2	HLA-Cw3, 1, 7, 8	+			+							
CD158d	KIR2DL4, KIR103	HLA-Bw4				+							
CD158e1/e2	KIR3DLI/S1, p70, NKAT3, NKB1	HLA-Bw4	+			+							
CD158f	KIR2DL5		+			+							
CD158g	KIR2DS5		+			+							
CD158h	KIR2DS1, p50.1	HLA-C	+			+							
CD158i	KIR2DS4, p50.3	HLA-C	+	−		+							
CD158j	KIR2DS2, p50.2	HLA-C	+			+							
CD158k	KIR3DL2, p140	HLA-A	+			+							
CD159a	NKG2A	CD94/CD159a heterodimer binds to HLA-E	+			+							
CD159c	NKG2C	C type Lectin superfamily member				+							
CD160	BY55, NK1, NK28	MHC class I	+	−		+							
CD161	NKR, NKRP1A		+	−	−	+			−	−	−	−	−
CD162	PSGL-1	Selectins	+	+			+	+	+	−	−	−	
CD163	M130, GHI/61, RM3/1	Hemoglobin	−	−	−			+	+	−	−	−	−
CD164	MGC-24, MUC-24		+	+			+	+	−		−	−	+
CD165	AD2, gp37						−	+	−	+	−		+
CD166	ALCAM, KG-CAM, SC-1, BEN, DM-GRASP	CD6, CD166, NgCAM	+	+				+	−			+	+
CD167a	DDR1, trkE, cak	ShcA, FRS2, Collagens		+	+								+
CD168	RHAMM, IHABP, HMMR	Ras, Src, Erk, Actin, Calmodulin, MAPKK, Hyaluronic acid	−	−	+		+	+					
CD169	Sialoadhesin, Siglec-1	CD227, CD206, CD43, α2, 3-Sialylated ligands			+			+					
CD170	Siglec-5	Sialylated glycans	−	+	+	−		+	+				
CD171	L1CAM, HSAS, HSAS1, MASA, MIC5, N-CAML1, S10, SPG1, NILE	CD171, Neurocan, Phosphocan, Laminin, CD9, CD24, CD56, Axonin-1,CD51/61, CD41/61, CD49e/CD29, α-9, Ankyrins, Kinases	+	+	+			+	+			+	+
CD172a	BIT, MFR, MYD-1, P84, SHPS-1, SHPS1, SIRP, SIRPα, SIRPα2	CD47, PTPN11			+		+	+	+				
CD172b	SIRPβ	TYROBP			+			+					
CD172g	SIRPγ, SIRP-B2, bA77C3.1		+			+							
CD173	Blood group H type 2, FUT1					−	+				+	+	
CD174	Lewis Y, FUT3, Les, FT3B					−	+						+
CD175	Tn		−	+		−	+						+
CD175s	Sialyl-Tn (s-Tn)		−	+		−	+					+	+
CD176	TF Antigen			−			+				+	+	+
CD177	NB1, HNA-2a, NB1gp, Neutrophil-specific antigen 1, PRV1								+				
CD178	Fas Ligand, FASL, CD95L, TNFSF6, APT1LG1	DcR3, CD95 (Fas), TNFRSF6B, PTPN12, FADD, TNFRSF1A	+	−		+		−	+	−	−	+	+
CD179a	VpreB, IGVPB, VPREB1, Immunoglobulin iota chain	CD179b, Ig μ heavy chain	−	+	−	−	−	−	−	−	−	−	−
CD179b	lambda5, 14.1, IGL5, IGGL1	CD179a, Ig μ heavy chain	−	+	−	−	−	−	−	−	−	−	−
CD180	RP105, Bgp95, Ly64, Ly78,	MD-1		+	+			+					
CD181	(formerly CD128a) CXCR1, IL-8Rα	IL-8	+					+	+				
CD182	(formerly CD128b) CXCR2, IL-8Rβ, CMKAR2, IL8R2	IL-8	+					+	+				
CD183	CXCR3, GPR9, CKR-L2, CMKAR3, IP10, Mig-R, TAC	IP10, Mig, I-TAC	+			+	+		+				
CD184	CXCR4, NPY3R, Fusin, CMKAR4, LESTR, HM89, FB22, LCR1	SDF-1, viral MIP-2, CXCL12	+	+	+	−		+	+			+	
CD185	CXCR5, BLR1, MDR15, MGC117347	CXCL13, CCL13	+	+	+	+		−	−				
CD186	CXCR6, STRL33, TYMSTR, BONZO		+										
CD191	CCR1, CKR1, CD191, CKR-1, HM145, CMKBR1, MIP1αR, SCYAR1	MIP-1α, RANTES, MCP-3, MIP-5, LD78	+				+	+					
CD192	CCR2, CKR2, CCR2A, CCR2B, CKR2A, CKR2B, CMKBR2, MCP-1-R, CC-CKR-2, FLJ78302, MGC103828, MGC111760, MGC168006	MCPs	+	+				+	+			+	
CD193	CCR3, CKR3, CMKBR3, CC-CKR-3, MGC102841	CCL11, CCL26, MCP-3 (CCL7), MCP-4 (CCL13), RANTES(CCL5)	+		+				+				+
CD194	CCR4, CC-CKR-4, CKR4, CMKBR4, ChemR13, HGCN	MIP-1, RANTES, TARC, MCP-1	+					+		+			
CD195	CCR5, CMKBR5, IDDM22, CC-CKR-5, FLJ78003	MIP-1a, 1b, MCP-2, RANTES	+	−		−		+	+	−	−	−	
CD196	CCR6, BN-1, DCR2, DRY6, CKRL3, GPR29, CKR-L3, CMKBR6, GPRCY4, STRL22, CC-CKR-6	MIP-3a	+	+	+	−		−	−				
CD197	CCR7 (formerly CDw197), BLR2, EBI1, CMKBR7	CCL19/ECL, CCL21	+	+	+								
CDw198	CCR8,CKR-L1, CKRL1, CMKBR8, CMKBRL2, CY6, GPR-CY6, TER1	I-309, TARC, MIP-1b	+					+					
CDw199	CCR9, GPR28, GPR-9-6	CCL25	+										
CD200	OX2, MRC, MOX1, MOX2	CD200R1	−	+	+	−	+	−	−	−	−	+	
CD201	EPCR, CCCA, CCD41, MGC23024, bA42O4.2, PROCR	Protein C					+					+	
CD202b	TEK, Tie2, VMCM, TIE-2, VMCM1	Angiopoietin-1, 2, and 4										+	
CD203c	PDNP3, B10, PDIβ, E-NPP3	cAMP, NAD, Nucleoside phosphates					+		+				
CD204	MSR, SR-A, phSR1, phSR2, SCARA1, MSR1	LDL, β-Amyloid fibrils						+					
CD205	DEC-205, CLEC13B, GP200-MR6, LY75	MIR98	+	+	+		+	+					
CD206	Mannose receptor C type-1 (MRC1), Macrophage mannose receptor (MMR), C-type Lectin domain family 13 member D (CLEC13D)	Glycoforms of sialoadhesin (CD169) and CD45, Bacterial cell wall molecules, Viral glycoproteins, Yeast proteins, Chitin, Lysosomal hydrolases, Plant glycoproteins, Neoglycoproteins, Lutropin, Chondroitin sulfate			+			+				+	+
CD207	Langerin, C-type Lectin domain family 4 member K (CLEC4K)	Mannose-bearing glycoproteins and glycolipids on microbial pathogens, including HIV gp120			+								
CD208	Lysosomal-associated membrane protein 3 (LAMP3), DC-LAMP, DCLAMP, LAMP, TSC403				+								
CD209	Dendritic cell-specific ICAM-3-grabbing non-integrin (DC-SIGN), DC-SIGN1, CDSIGN, C-type lectin domain family 4 member L (CLEC4L), HIV gp120-binding protein	CD50 (ICAM-3), CD102 (ICAM-2), Mannose-bearing glycoproteins on several pathogens including HIV gp120			+			+				+	
CD210a	Interleukin 10 Receptor A (IL-10RA, IL-10R1), CDw210a	IL-10, vIL-10	+	+	−	−		+	−				
CD210b	Interleukin 10 Receptor B (IL-10RB, IL-10R2), CDw210b, CRF2-4, CRFB4	IL-10 and vIL-10	+	+	+	+		+					
CD212	Interleukin 12 receptor β1 chain (IL-12β1), IL-12β, CD212b1	IL-12, IL-23, associates with IL-12Rβ2 or IL-23R to form high-affinity receptors	+	+	−	+		−	−				
CD213a1	Interleukin 13 receptor α1 chain (IL-13Rα1), NR4	IL-13, IL-4, associates with IL-4Rα to form receptors		+	+			+				+	
CD213a2	Interleukin 13 receptor α2 chain (IL-13Rα2), interleukin-13-binding protein (IL13BP)	IL-13		+				+					+
CD215	Interleukin 15 receptor alpha chain (IL-15RA)	IL-15	+	+	−	−		−	−				
CD217	Interleukin 17 receptor A (IL-17RA), IL-17R, CDw217	IL-17A, vIL-17, IL-17F (weak binding), associates with IL-17RC to form receptor for IL-17A, IL-17F, and IL-17A/F heterodimers, associates with IL-17RB to form receptor for IL-17E (IL-25)	+	+	+	+	+	+	+			+	+
CD218a	Interleukin 18 receptor 1 (IL-18R1), IL-18RA, IL-18Rα, IL1 receptor-related protein (IL-1Rrp), IL-R5, CDw218a	IL-18, associates with IL-18Rβ to form high-affinity IL-18 receptor	+	+	+	+			+			+	
CD218b	Interleukin 18 receptor β (IL-18Rβ), IL-18 receptor accessory protein (IL-18RAP, IL-18RAcP), IL-1R accessory protein-like (IL-1RAcPL), IL-1R7, CDw218b	Associates with IL-18Rα to form high-affinity IL-18 receptor	+	+	+	+			+				

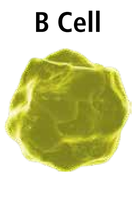
+ Positive* − Negative

CD	Alternative Name	Ligands & Associated Molecules	T Cell	B Cell	Dendritic Cell	NK Cell	Stem Cell/Precursor	Macrophage/Monocyte	Granulocyte	Platelet	Erythrocyte	Endothelial Cell	Epithelial Cell
CD220	Insulin receptor (INSR), IR	Insulin, IGF-2	+	+	+	+	+	+	+			+	+
CD221	Insulin-like growth factor 1 receptor (IGF1R), IGF-1R, type I IGF receptor (IGF-IR), JTK13	Insulin-like growth factor 1 (IGF-I), IGF-II, Insulin	+	+	+	+	+	+	+			+	+
CD222	Cation-independent mannose-6-phosphate receptor (M6P-R, CIM6PR, CIMPR, CI-MPR), Insulin-like growth factor 2 receptor (IGF2R, IGFIIR, IGF-IIR), MPR1, MPRI	IGF-II, TGF-β latency-associated peptide (LAP), Proliferin, Prorenin, Plasminogen, Leukemia inhibitory factor (LIF), Herpes simplex virus, Thyroglobulin, Retinoic acid, Cathepsin B, D, L, Mannose-6-phosphate (M6P)-containing proteins, CD87	+	+	+	+	+	+	+			+	+
CD223	Lymphocyte activation gene 3 (LAG3, LAG-3), FDC protein	MHC class II, TCR-CD3 complex	+	−	−	+	+						
CD224	γ-Glutamyl transferase 1 (GGT1), γ-Glutamyl transpeptidase 1 (GGTP), GGT, GTG, EC2.3.2.2	Glutathione, GSH, Leukotriene C4, GSNO	+	+			+	+	+			+	+
CD225	Interferon-induced transmembrane protein 1 (IFITM1), Interferon-induced protein 17 (IFI17), Interferon-inducible protein 9-27 (9-27), Leu13, fragilis2	CD21, CD19, TAPA-1, CD81	+	+		+	+					+	
CD226	DNAX accessory molecule 1 (DNAM-1), Platelet and T-cell activation antigen 1 (PTA-1), T lineage-specific activation antigen 1 antigen (TLiSA1)	CD112, CD155, LFA-1 when phosphorylated by PKC	+	+		+	+	+	−	+	−		−
CD227	Mucin 1 (MUC1, MUC-1), DF3 antigen, H23 antigen, Peanut-reactive urinary mucin (PUM), Polymorphic epithelial mucin (PEM), Epithelial membrane antigen (EMA), Tumor-associated mucin, Episialin	CD54, CD169, Selectins, Grb2, β-Catenin, GSK-3β	+	+	+		+	+					+
CD228	Melanotransferrin (MT, MTF1), p97 Melanoma antigen (p97, MAP97), Mfi2, gp95	Iron, Plasminogen, pro-UPA					+					+	
CD229	Lymphocyte antigen 9 (Ly9), T-lymphocyte surface antigen Ly-9, Signaling lymphocyte activation molecule family member 3 (SLAMF3), Lgp100, T100	CD229 (homophilic binding), SAP, Grb2	+	+	+	+	+	−	−	−	−		
CD230	Prion protein (PrP, PRNP), Major prion protein, prP27-30, prP33-35C, PrPc	CD230 (homophilic binding), N-CAM (CD56)	+	+	+	+	+	+	+			+	+
CD231	Tetraspanin 7 (TSPAN7), T-cell acute lymphoblastic leukemia-associated antigen 1 (TALLA-1), Transmembrane 4 superfamily member 2 (TM4SF2), Membrane component X chromosome surface marker-1 (MXS1), A15		T-ALL										
CD232	Plexin C1 (PLXNC1), Virus-encoded semaphorin protein receptor (VESPR, VESP-R)	Semaphorin 7A (CD108), Poxvirus semaphorin A39R		+	+	+		+	+				
CD233	Solute carrier family 4 anion exchanger member 1 (SLC4A1), Band 3, Anion exchanger 1 (AE1), Diego blood group, Erythroid protein band 3 (EPB3)	Glycophorin A, Ankyrin, Hemoglobin, Glycolytic enzymes	−	−	−	−		−	−		+		
CD234	Duffy antigen/chemokine receptor (DARC), Duffy blood group antigen (Dfy, FY), Fy-Glycoprotein, Glycoprotein D	CXCL1 (MGSA), CXCL8 (IL-8), CCL2 (MCP-1), CCL5 (RANTES), Malarial parasites Plasmodium knowlesi and P. vivax	−	−	−	−		−	−		+	+	+
CD235a	Glycophorin A (GYPA), Sialoglycoprotein α, Sialoglycoprotein A, MN blood group antigen, PAS-2	CD170, Influenza virus, Plasmodium falciparum erythrocyte binding antigen EBA-175	−	−	−	−	+	−	−		+		
CD235b	Glycophorin B (GYPB), Sialoglycoprotein δ, ss-Active sialoglycoprotein, SS blood group antigen, PAS-3						+				+		
CD236	Glycophorin C & D (GYPC & GYPD), Glycophorin C/D, Gerbich blood group antigen, CD236R (glycophorin C only)	Plasmodium falciparum erythrocyte binding protein 2 (PfEBP-2), p55, band 4.1					+				+		
CD236R	Glycophorin C, GYPC	Plasmodium falciparum erythrocyte binding protein 2 (PfEBP-2), p55, band 4.1					+				+		
CD238	Kell blood group glycoprotein (Kel), Kell blood group antigen, Endothelin-3-converting enzyme (ECE3)	Big endothelin-3 (intermediate precursor of endothelin-3)					+				+		
CD239	Basal cell adhesion molecule (BCAM, B-CAM), Lutheran blood group glycoprotein, Lutheran blood group antigen (Lu)	α5 chain of Laminin 10/11									+	+	+
CD240	Rh blood group system, CD240CE (Rh30CE, Cc & Ee blood antigens), CD240D (Rh30D, D blood antigen), CD240DCE (Rh30D/CE)	CD241, CD242, CD47, CD235b					+				+		
CD241	RhAG, Rh50A, RH2	ANK1	−	−	−	−	−	−	−	−	+		
CD242	ICAM4, LW	LFA-1, Mac-1, VLA-4	−	−	−	−	+	−	−	−	+	+	
CD243	ABC20, CD243, CLCS, GP170, MDR1, P-gp, PGY1		−	−		−	+	−	−	−	−		
CD244	2B4, NAIL, NKR2B4, Nmrk, SLAMF4	CD48	+	−	+	+		+	+				
CD245	p220/240	Lymphocyte receptor	+	+		+		+	+	+			
CD246	ALK, TFG/ALK, NBLST3	Pleiotrophin	+									+	
CD247	CD3-ζ, CD3H, CD3Q, CD3Z, T3Z, TCRZ	Janus kinase 3, Protein unc-119 homolog	+			+							
CD248	TEM1, Endosialin, CD164L1, MGC119478, MGC119479	Collagen I/IV Fibronectin										+	
CD249	APA, gp160, EAP, ENPEP											+	+
CD252	TNFSF4, GP34, OX4OL, TXGP1, CD134L, OX-40L, OX40L	CD134 (OX40)		+	+							+	
CD253	TNFSF10, TL2, APO2L, TRAIL, Apo-2L	Apo2	+	+				+					
CD254	TRANCE, RANKL, TNFSF11, ODF, OPGL, sOdf, OPTB2, hRANKL2	RANK	+										
CD256	TNFSF13, APRIL, TALL2, TRDL-1, UNQ383/PRO715	TNFRSF17/BCMA, TACI	+		+			+	+				
CD257	TNFSF13b, BAFF, BLYS, TALL1, THANK, TNFSF20, ZTNF4	TNFRSF13B/TACI, TNFRSF17/BCMA, TNFRSF13C/BAFFR	+	+	+	+		+	+				
CD258	TNFSF14, LTg, TR2, HVEML, LIGHT	TNFRSF14/HVEML	+	+	+	−		+	+				
CD261	TNFRSF10a, APO2, DR4, MGC9365, TRAILR1	TRAIL, DAP3	+	+	−	+		+	+				
CD262	TNFRSF10b, KILLER/DR5, TRAILR2, TRICK2, TRICK2A, TRICK2B, TRICKB, ZTNFR9	TNFSF10, TRAIL	+	+	−	+		+	+				
CD263	TNFRSF10c, DCR1, LIT, TRAILR3, TRID	TRAIL	+	+		+		+	+				
CD264	TNFSF10d, DCR2, TRAILR4, TRUNDD	TRAIL	+	+	−	+		+	+				
CD265	TNFRSF11a, EOF, FEO, ODFR, OFE, PDB2, RANK, TRANCER	TNFSF11, RANKL, TRANCE, OPGL	+		+			+					
CD266	TNFRSF12A, FN14, TWEAKR, TWEAK-R	TWEAK										+	
CD267	TNFRSF13B, CVID, TACI, FLJ39942, MGC39952, MGC133214, TNFRSF14B	TALL1, BLYS, BAFF	+	+	−			+	−				
CD268	TNFRSF13C, BAFFR, CD268, BAFF-R, MGC138235	BAFF	+	+	−	−		−	−				
CD269	TNFRSF17, BCM, BCMA	TNFSF13B, TALL-1, BAFF		+									
CD270	TNFRSF14, HVEM, HVEA, TR2, ATAR	CD258, CD272, CD160	+	+	+	+		+	+				
CD271	NGFR, Gp80-LNGFR, TNFRSF16, p75(NTR), p75NTR	NGF, BDNF, NT-3, NT-4			+								
CD272	BTLA1, FLJ16065, MGC129743, BTLA	B7H4	+	+	+	−		+	−				
CD273	B7DC, Btdc, PDL2, CD273, PD-L2, PDCD1L2, MGC142238, MGC142240, bA574F11.2, PDCD1LG2	PD2	+		+			+					
CD274	B7-H, B7H1, PDL1, PD-L1, PDCD1L1, PDCD1LG1, MGC142294, MGC142296, CD274	PD1	+	+	+	+		+	+				
CD275	B7H2, GL50, B7-H2, B7RP1, CD275, ICOSL, LICOS, B7RP-1, ICOS-L, KIAA0653, ICOSLG	ICOS	+	+	+			+					
CD276	B7H3, B7-H3, 4Ig-B7-H3, CD276	ICOS			+			+					
CD277	BTF5, BT3.1, CD277, MGC141880, BTN3A1		+	+	+	+	+	+					
CD278	AILIM, CD278, MGC39850, ICOS	B7-H3	+										
CD279	PD1, CD279, SLEB2, hPD-1, hPD-I, PDCD1	PDL1	+	+									
CD280	CD280, UPARAP, CLEC13E, ENDO180, FLJ35911, KIAA0709, MRC2, KIAA0709	uPARAP				+		+				+	
CD281	TIL, CD281, rsc786, KIAA0012, MGC104956, MGC126311, MGC126312, TIL. LPRS5, DKFZp547I0610, DKFZp564I0682, TLR1	Bacterial lipoprotein						+	+				
CD282	TIL4, CD282, TLR2	Peptidoglycan						+	+				
CD283	TLR3, TOLL-like receptor 3	dsRNA			+			−	−				
CD284	TOLL, CD284, hToll, ARMD10, TLR4	LPS			+			+	+			+	
CD285	TLR5, Toll-like receptor 5, SLEB1, SLE1, MELIOS, TIL3	Bacterial flagellin			+			+					+
CD286	CD286, TLR6, TOLL-like receptor 6	LPS			+			+					+
CD288	CD288, MGC119599, MGC119600, TLR8, TOLL_like receptor 8	CpG oligonucleotides, MyD88	+		+			+					
CD289	TLR9, TOLL-like receptor 9	CpG oligonucleotides		+	+								
CD290	TLR10, TOLL-like receptor 10	MyD88	+	+	+				+				
CD292	BIMPR1A, 10q23del, ACVRLK3, ALK3, SKR5	Members of TGF-β superfamily					+						
CDw293	BMPR1B, ALK-6, ALK6,	BMPs (members of the TGF-β superfamily)					+						
CD294	CRTH2, PGRD2, G protein-coupled receptor 44 (GPR44), DL1R, DP2	Prostaglandin D2	+						+				
CD295	LEPR, OBR	Leptin	+	+	+	+	+	+	+	+		+	+
CD296	ART1, ADP-ribosyltransferase 1, RT6, ART2, MGC133217	Arginine residues in proteins	+										+
CD297	ART4, ADP-ribosyltransferase 4, Dombrock blood group glycoprotein, DO, DOK1	Antigens of the Dombrock blood group system are located on the gene product, which is glycosylphosphatidylinosotol-anchored to the erythrocyte membrane.						+				+	
CD298	ATP1B3, Na K ATPase β3 subunit, ATPB-3, FLJ29027	Part of the glycoprotein subunits of Na+/K+ -ATPase.	+	+	+	+	+	+	+	+			
CD299	DCSIGN-related, L-SIGN, DCSIGNR, HP10347, DC-SIGN2, DC-SIGNR, MGC47866, MGC12996, CLEC4M	Carbohydrate ligands on the surface of microbes and endogenous cells										+	
CD300a	IRC1, IRC2, CLM-8, IRp60, IGSF12, CMRF35H, CMRF-35H, CMRF35-H, CMRF35H9, CMRF35-H9, IRC1/IRC2, CMRF-35-H9	Unknown	+	+	+			+					
CD300c	CMRF-35A, LIR, CLM-6, CMRF35, IGSF16, CMRF-35, CMRF35A, CMRF35A1, CMRF35-A1	Unknown	+	+	+			+					
CD300e	CMRF-35L1, CLM2, CLM-2, IREM2, PIgR2, IREM-2, PIgR-2, CD300LE, CMRF35-A5	Unknown			+			+					
CD301	MGL1, CLEC10A, CLECSF14, HML	Terminal galactose and N-acetylglucosamine units linked to serine or threonine			+			+					
CD302	DCL1	F-actin			+			+	+				
CD303	BDCA2, CLEC4C	TLR-9			+								
CD304	Neuropilin 1	VEGF			+								
CD305	LAIR1	PTPN6, PTPN11	+	+	+	+		+					
CD306	LAIR2	LAIR1, Collagen	+	+				+					
CD307a	FCRL1, IRTA5		−	+	−	−		−	−				
CD307b	FCRL2, IRTA4		−	+	−	−		−	−				
CD307c	FCRL3, IRTA3		+	+	−	−		−	−				
CD307d	FCRL4, IRTA1		−	+	−	−		−	−				
CD307e	FCRL5, IRTA2		−	+	−	−	−	−	−				
CD309	VEGFR2, KDR, Flk1	VEGF					+					+	
CD312	EMR2	Chondroitin sulphates			+			+	+				
CD314	NKG2D	MICA, MICB, ULBP2, ULBP1	+	+	−	+		+	+				
CD315	PTGFRN, CD9P1	CD9, CD81		+				+					
CD316	EWI2, IGSF8	CD82, CD81, CD9	+	+		+							
CD317	BST2		+	+	+	+		+					
CD318	CDCP1	N-Caherin, P-Cadherin, Syndecan-1, Syndecan-4					+						
CD319	CRACC, SLAMF7	CD319	+	+	+	+		+	−				
CD320	8D6	8D6 Antigen, FDC			+								
CD321	JAM1, F11 receptor		+	+		+		+	+	+	+	+	+
CD322	JAM2											+	
CD324	E-Cadherin						+				+		+
CD325	N-Cadherin						+						
CD326	Ep-CAM												+
CD327	Siglec6, CD33L	Silylated glycans		+									
CD328	Siglec7	Silylated glycans	+	+	+	+		+	+				
CD329	Siglec9	Silylated glycans, sMUC16	−	+	−	+		+	+				
CD331	FGFR1	FGF											+
CD332	FGFR2	FGF											+
CD333	FGFR3	FGF											+
CD334	FGFR4	Acidic FGF											+
CD335	NKp46, NCR1, Ly94	HA, CD3z, FCERIG				+							
CD336	NKp44, NCR2, Ly95	DAP12				+							
CD337	NKp30, NCR3	Viral proteins, CD3z				+							
CD338	ABCG2		−	+		−	+	+	−				
CD339	Jagged-1, JAG1	Notch 1, 2, 3											+
CD340	ERB-B2, Neu, Her-2	EGFR											+
CD344	FZD4, Frizzled homolog 4	MAGI3, Norrin					+					+	+
CD349	FZD9, Frizzled homolog 9	Wnt-2					+						
CD350	FZD10, Frizzled homolog 10	Wnt-7					+						+
CD351	FCAMR, Fc receptor, IgA, IgM, high affinity	IgA, IgM	+	+	−	−		+	−				
CD352	SLAMF6, Ly108, NTB-A	CD352, SH2D1A, SAPPTN6, PTN11	+	+	+	+		+	+				
CD353	SLAMF8, BLAME		−	+	−	−		+	−				
CD354	TREM1	TYROBP/DAP12	+	+	+	+		+	+				
CD355	CRTAM, Cytotoxic and regulatory T-cell molecule	CADM1	+	+	−	+		−	−				
CD357	TNFRSF18, Tumor necrosis factor receptor superfamily, member 18, GITR	TRAF1, TRAF2, TRAF3, SIVA1/SIVA, GITRL	+	+	+	+		+	−				
CD358	TNFRSF21, Tumor necrosis factor receptor superfamily, member 21, DR6	TRADD, N-APP	+	+	−	−		+	−				
CD360	IL21R	IL-21, common γ subunit, JAK1	+	+	−	+		+	−				
CD361	EVI2B (ectopic viral integration site 2B)		+	+	−	+		+	+				
CD362	Syndecan-2	CD267 (TACI), FGF2, GM-CSF, TGFβ	+	+	−	−		+	+				
CD363	S1PR1, Sphingosine-1-phosphate receptor 1, EDG-1, S1P[1]	SIP	+	+	−	+		−	−			+	
CD364	PI16	MSMB	+	−		−		−	−				
CD365	TIM-1, T-cell immunoglobulin mucin receptor 1, TIMD-1, HAVCR1, KIM-1	Hepatitis A Virus, TIM-4	+										+
CD366	TIM-3, T-cell immunoglobulin mucin receptor 3, TIMD-3, HAVCR2, KIM-3	Galectin-9	+		+			+					
CD367	CLEC4A, CLECSF6; DCIR, Dendritic cell immunoreceptor, LLIR	HIV-1, HCV, endogenous and pathogen glycans		+	+			+	+				
CD368	CLEC4D, C-type lectin domain family 4, member D, CLEC6, MCL, MPCL	Glycans			+			+	+				
CD369	CLEC7A, Dectin-1, Dendritic cell-associated C-type lectin 1, BGR	β-glucans		+	+			+	+			+	
CD370	CLEC9A, C-type lectin domain family 9 member A, DNGR1	Complex of actin filaments and associated cytoskeletal proteins			+			+					
CD371	CLEC12A, DCAL-2, Dendritic cell-associated lectin 2, CLL-1, MICL				+	+		+	+				

+ Positive* − Negative

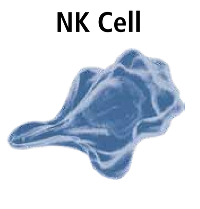
T Cell

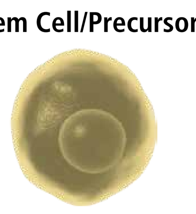
Key Markers
CD3
CD4
CD8

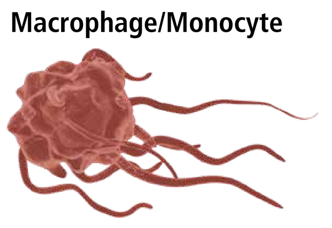
B Cell

Key Markers
CD19
CD20

Dendritic Cell

Key Markers
CD11c
CD123

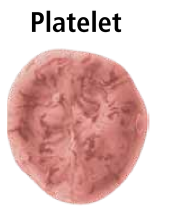
NK Cell

Key Markers
CD56

Stem Cell/Precursor

Key Markers
CD34*
*hematopoetic stem cell only

Macrophage/Monocyte

Key Markers
CD14
CD33

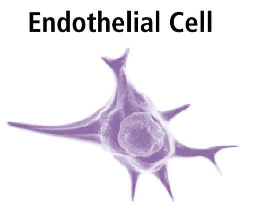
Granulocyte

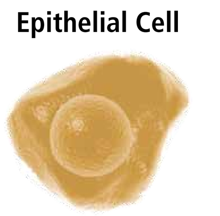
Key Markers
CD66b

Platelet

Key Markers
CD41
CD61
CD62

Erythrocyte

Key Markers
CD235a

Endothelial Cell

Key Markers
CD146

Epithelial Cell

Key Markers
CD326

*Positive refers to any expression of this CD marker either in all cells, a subset, or upon activation.

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[1]The new CDs were established at the HLDA10 meeting held in Australia 2014. For additional information regarding CD molecules, please visit **www.hcdm.org**.