Human CD Marker Chart

Reviewed by HLDA[1]

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, Ly1.2.3	MHC I, Lck	+	+		+	−	−	−	−	−	−	−
CD8b	CD8, Leu2, Ly1.3	MHC I, Lck	+	−		−	−	−	−	−	−	−	−
CD9	p24, DRAP-1, MRP-1, Tspan-29	CD61, 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, Mac1, iC3b/R, 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						+	+				
CD w12	p90-120		−	−		+	+	+	+	−	−		
CD13	ANPEP, Aminopeptidase N, AAP, APM, LAP1, P150, PEPN, APN, gp150, EC 3.4.11.2	NGR, hNAT1A, 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, CD11b, 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, Sigles-2	p72Src, p53/56lyn, SHP1, PI3 kinase, CD45, PLCγ1	+	+		−	+	+	+				
CD23	FcεRII, 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, GP1TGB1, FNRB, fibronectin receptor beta subunit, VLA-beta, VLAB	VCAM-1, MAdCAM-1	+	+	+	+	+	+	+				
CD30	Ber-H2, K-1, CD30L receptor, TNFRSF8, TNRB	CD153, TRAF1, 2, 3, 5	+	+		+	+	+	+	−	−	−	
CD31	PECAM-1, endoCAM, Platelet endothelial cell adhesion molecule, PECA1	CD38, Glycosaminoglycans (GAGs), Integrin α-v-β3	+	+		+	+	+	+				
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, S5GLEC-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), PAS IV, fatty acid translocase (FAT), SCARB3, GPBB	Thrombospondin, Collagen 1, 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), ATPdiphosphohydrase, NTPdiphosphohydrase-1, Ecto ATPase 1	ADP/ATP	+	+	+	+		−	−	+			
CD40	Bp50, MGC9013, TNFRSF5, Tumor necrosis factor receptor superfamily member 5, CD40L, CD40ligand	CD154, CD40L, TRAP	−	+	+	−	+	+	+	−	+	+	
CD41	GPIIb, Integrin αII b, Platelet membrane glycoprotein IIb, ITGA2B, Integrin α2b, Human Platelet Antigen-3 (HPA-3)	Fibrinogen, Fibronectin, von Willebrand factor (vWF)	−	−		−	+	−	−	−	−	−	
CD42a	GPIX, GPIX, Platelet glycoprotein IX	von Willebrand factor (vWF), Thrombin, CD42b-α,-β	−	−		−	+	−	+	−	−	−	
CD42b	GPIbα, Platelet glycoprotein Ib α	von Willebrand factor (vWF), Thrombin, CD42a, b, -β	−	−		−	+	−	+	−	−	−	
CD42c	GPIbβ, Platelet glycoprotein Ib β	von Willebrand factor (vWF), Thrombin, CD42a, b, -β	−	−		−	+	−	+	−	−	−	
CD42d	GPV, Platelet glycoprotein V	von Willebrand factor (vWF), Thrombin, CD42a, b, c	−	−		−	+	−	+	−	−	−	
CD43	Sialophorin, Leukosialin, Galactosylglycoprotein, SPN, GPL115, SPN, LSN	Hyaluronan, E2R, Moesin	+			+	+	+	+	+	−		
CD44	ECMR3, H-CAM, Pgp-1, Phagocytic glycoprotein 1, Extracellular matrix receptor III, GP90 Lymphocyte homing/adhesion receptor, Hyaluronate receptor, gp90 homing receptor, CD44v6, Epican, PGP-1	Hyaluronan, Ankyrin, Fibronectin, MSP/β, 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 I 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, VLA-3 α	Collagen, Laminin, CD9	+	+		+		−	+		+		
CD49d	VLA-4α, Integrin α4 chain, Integrin alpha 4, ITGA4, IA4, alpha 4 subunit of VLA-4	CD106, MADCAM, Fibronectin, Pavilin	+	+	+	+	+	−	−	−			
CD49e	VLA-5α, Integrin α5, Fibronectin receptor	Fibronectin, Invasin, Fibrinogen		+	+	+	+			+	+	+	
CD49f	VLA-6α, Integrin α6, gp1, TGA6, ITA6	Laminin, Invasin					+	+		+	+	+	
CD50	ICAM-3	LFA-1, Integrin αL/β2	+	+		+	+	+	+	+	−	−	
CD51	Integrin αv, VNR-α, Vitronectin-Rα	Fibrinogen, Vitronectin, MMP-2, vWF, TSP						+	+	+			
CD52	CAMPATH-1, HE5, Epidydimal 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, fibrinogen	+	+				+	+				
CD55	Decay Accelerating Factor Complement (DAF), CR, CROM, TC	SCR, CD97, Echovirus	+	+		+	+	+	+	+	+	+	
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, α, 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, Fucosynganglioside (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 glycoprotein), BGP1, BGP1, 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	B1/A3, CD66f, CHM1P2, FLJ90598, FLJ90654, PBG1, PSBG1, PSGGA, PSGI1A, SP1-SP1, PSBG1, B1G1, PBG1, PSGGA		−	−		−		+	+				
CD68	gp110, Macrosialin, SCARD1, Macrophage antigen CD68	LDL	+	+		+	+	+	+	+	+	+	
CD69	AIM, EA 1, MLR3, gp34/28, VEA, CLEC2C, BL-AP2b, Early activation antigen CD69		+	+		+	+	+	+				
CD70	TNFSF7, CD27L, CD27L, Ki-24	CD27 ligand	+	+		+	+	−	−	+	−	−	
CD71	TFRC, TfR, Transferrin receptor, TFR, TRFR	Transferrin	+	+		+	+	+	+	+	+	+	
CD72	Ly-19.2, Ly-32.2, Lyb2	CD5		+		−	+	+	+	−	−	−	
CD73	Ecto-5′-nucleotidase, NT5E, ESNT, NT5, NTE, eN, eNT	AMP						+	+				

+ 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
CD74	DHLAG, HLADG, Ia-g, Ia, invariant chain	HLA-DR, CD44	+	+	+			+				+	+
CD75	S16GAL1, MGC48859, SIAT1.S16GALL, S16N, S16 β-Galactosamide α-2,6-sialyltransferase, Sialic-linked lactosamine, Carbohydrate of α2,6 sialyltransferase	CD22		+			−	−	+	+	−	−	−
CD75S	α2,6 Sialylated lactosamine	CD22 (proposed)	+	+			−	+	+	−	+	+	+
CD77	A1GALT (α1,4-Galactosyltransferase), A4GALT1, Gb3S, PK1, P1, P1k A4GALT, Pk antigen, BLA, CTB1Gb3A4GALT1, Gb3S, PK1, 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, LAB7, B7, B7-1, B81, 1-lymphocyte activation antigen CD80	CD28, CD152 (CTLA-4)	+	+	+	+	−	+	−	+	−	−	−
CD81	TAPA1, S5.7	Leu-13, CD19, CD21	+	+	+	+	+	+	+	−	−	+	+
CD82	4F9, C33, IA4, KAI1, R2, S16, 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, XKbac BC035566.7	HLA class I	+	−	+	+	−	+	+	+	−	−	−
CD85C	LILRB5 (Leukocyte immunoglobulin like receptor, subfamily B(with TM and ITIM dymains), member 5, LIR8					+		+					
CD85D*	LILRB2 (Leukocyte immunoglobulin like receptor, subfamily B (with TM and ITIM domains), member 2 (LIR-2, ILT4, LIR2 MFR10, MIR-10)	HLA class I	−	−	+	−	−	+	+	−	−	−	−
CD85E	LILRA3 (Leukocyte immunoglobulin like receptor, subfamily A (without TM domain), member 3, HM31, HMA3, ILT6, LIR-6, LIRA-6)			+	+	+		+					
CD85F	XKbac BC043819.2, CDB3, CDB3F, LIR9, ILT11, LILRB7 (Leukocyte immunoglobulin like receptor, subfamily B (with TM and ITIM domains), member 7												
CD85G	LILRA6 (Leukocyte immunoglobulin like receptor, subfamily A (with TM domain), member 6, ILT7, MGC129597, MGC129598				+					+	+		
CD85H	LILRA2 (Leukocyte immunoglobulin like receptor, subfamily A (with TM domain), member 2, ILT1, LIR-7, XKbac BC065052.2, ILT-1			+									
CD85J	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), ILT8, LILRA5P		+	+	+		+						
CD85M	LILRP2 (Leukocyte immunoglobulin like receptor pseudogene 2), ILT10, LILRA5		+	+	+		+						
CD86	B7-2/B70, CD28LG2, LAB72, MGC34413	CD28, CD152 (CTLA-4)	+	+	+	−	+	−	+	−	+	−	+
CD87	Upar, PLAUR, UKR	uPA, Pro-UPA, Vitronectin	+	+		+	+	+	+	+	+	+	+
CD88	C5R1, C5aR, CAR, C5A	C5a/C5a desArg, Anaphylatoxin	−	−	+	+	+	+	+	+	+	+	+
CD89	FCAR	IgA1, IgA2	−	+			+	+	+	−	+	+	+
CD90	Thy 1, CDw90	CD45, lck, fyn, P100	−	+		−	+	+	+	−	+	+	+
CD91	LRP1, α2MR, α2MR, APOER, APR, LRP	RAP, α2M, apoE, Lactoferrin, LDLs	−	+		−	+	+	+	−	+	−	+
CD92	SLC44A1, CTL1, CHTL1, 8P11-2B7A8.1, p70		+	+									
CD93	C1QR1,C1qR1,MXRA4, C1qRP), D/373e23.1, GR11		−	+	−	−	+	+	+	+	+	+	+
CD94	KLRD1, Kp43	HLA class I, NKG2-A, p39	+	−		+		+	+	−	−	−	−
CD95	CD178, FAS(L), APO-1, FAS, TNFRSF6, CD95L, APT1LG1, APT1, FAS1, FAS1M, ALPS1A, TNFSF6, FASL	CD178 (Fas ligand)	+	+			+	+	+	−	+	+	
CD96	TACTILE, MGC22596		+	−			+	+	+	+	+	+	
CD97	TM5LN1, BL-KDEF1.2	CD55 (DAF)	+	+	+		+	+	+	−	+	+	
CD98	5E12A2, 4F2, 4F2HC, 6T2HC, MDU1, NACAE, FRP-1, RL-388	Actin	+	+			+	+	+	+	+	+	+
CD99	MIC2, E2 antigen, MIC2X, MIC2Y/HBAT1, MSK5X		+	+			+	+	+	+	+	+	+
CD99R	CD99 Mab restricted		+	+			+	+	+	+	+	+	+
CD100	SEMA4, coll-4, C9orf146, FLJ33485, FLJ34282, FLJ39737, FLJ46484, M-sema G, MGC16918, MGC16919, SEMA4G, SEMA4	LFA-1, CD1a/CD1B, Integrin α2, β2	+	+			+	+	+	−	+	+	+
CD101	IGSF2, P126, V7, BA27, BPC4K, P126, V7 LSB		+	+			+	+	+	−	+	+	
CD102	ICAM-2, Lyt60	LFA-1, CD1a/CD1B, Integrin α2, β2	+	+			+	+	+	−	+	+	
CD103	HML-1, Integrin αE, ITGAE, CK6.2, HML1	E-Cadherin, Integrin β7	+	+			+	+	+	+	+	+	
CD104	Integrin β4, TSP1180, ITGB4, TSP-180	Laminins (LI,LIV), CD49F, Integrin α6	−	−		+	+	+	+	+	+	+	+
CD105	Endoglin, HHT1, ORW, SH-2	TGF β1, TGF-β3	+	+		+	+	+	+	+	+	+	+
CD106	VCAM-1, INCAM-100	Integrin α4β1, VLA-4c	+	+		−	+	+	+	+	+	+	+
CD107a	LAMP-1, LAMP/A, CD107a, LGP120		+	+			+	+	+	+	+	+	
CD107b	LAMP-2, LAMP/B		+	+			+	+	+	+	+	+	
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, FLM2, FMS	CSF-1, Phosphotyrosine binding proteins	−			+	+	+	+	−	−	−	
CD116	GM-CSFRα, CDw116, CSF2R, CSF2RA, CSF2RAX, CSF2RW, CSF3R, CSF3RW, GM-CSF-R α, GMCSFR, GMR, MGC38418, MGC4838	GM-CSF, CD131	−	+	+		+	+	−	−	−	−	
CD117	c-KIT, SCFR, PBT	SCF, MGF, KL, PI3 kinase	−	−	+	+	+	+	+	+	+	+	+
CD118	LIFR, gp190, S952, STWS, SWS	IFN α, IFN β											+
CD119	IFNgR, IFNgRα	IFNgR, IFNgRβ	+	+		+	+	+		−	+	+	
CD120a	CD120a, FFF, MGC19588, TBP1, TNF-R, TNF-R I, TNF-R1, TNFR, TNFR1, TNFR55, TNFR60, p55, p55-R, p60	TNF, TRADD, TRAF, RIP, Lck	+	+	+		+	+	+	−	+	+	+
CD120b	TNFR2, p75, TNFR p80	TNF, TRADD, TRAF, RIP, Lck	+	+	+		+	+	+	−	+	+	+
CD121a	Type 1 IL-1R,CD121A, D25147.3, IL-1R α, IL1R, IL1RA, P80	IL-1α and IL-1β, IL-1RA	+				+	+	+	−	+	+	−
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, MGC34774, hIL-3Rα	IL-3, CD131	−	−	+	+		+	+		+		
CD124	IL-4Rα	IL-4, IL-13, CD132, Jak1, Fes, Stat6, IRS-2	+	+		+	+	+	+	−	+	+	+
CD125	IL-5Rα	CDw125, HSILSR3, ILSR, MGC26550	−	+			+	+	+	−	−	−	
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, Src, Grb2	+	−		+	+	+	+				
CD132	Common γ chain, IL-2Rγ	CD25, CD122, CD124, CD127, IL-9R, JAK3, JAK1, Syk, kk	+	+		+	+	+	+				
CD133	AC133, PROM1, Prominin 1, Hematopoietic stem cell antigen		−	−		+	+	+	+	−	−	+	+
CD134	OX40, TNFRSF4	OAX0 ligand	+	+		−		+					
CD135	Flt3, Flk2, STK1	FL (Flt3 ligand)	−	−		+	+	+	−	−	−		
CD136	MSP-R, RON, p158-ron	MSP, HGF1, Src, PI-3 K				+	+	+	+				+
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, TAF1	−	−		+	+	+	+				+
CD142	Tissue factor, Thromboplastin, F3	Factor VIIa, Factor Xa/TRPS	−	−		+	+	+	+	+	+	+	+
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, OX-47, TCSF		+	+		+	+	+	+	+	+	+	
CD148	HPTPη, 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-TGF α, 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	KIR3DL1/S1, p70, NKAT3, NKB1	HLA-Bw4	+			+							
CD158f	KIR2DL5		+			+							

+ 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
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, trk E, 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, MICS, N-CAM-L1, S10, SPG1, NILE	CD171, Neuropsin, Phosphocan, Laminin, CD9, CD24, CD56, Axonin-1,CD51/61, CD61/61, CD49e/CD29, α-9, Ank