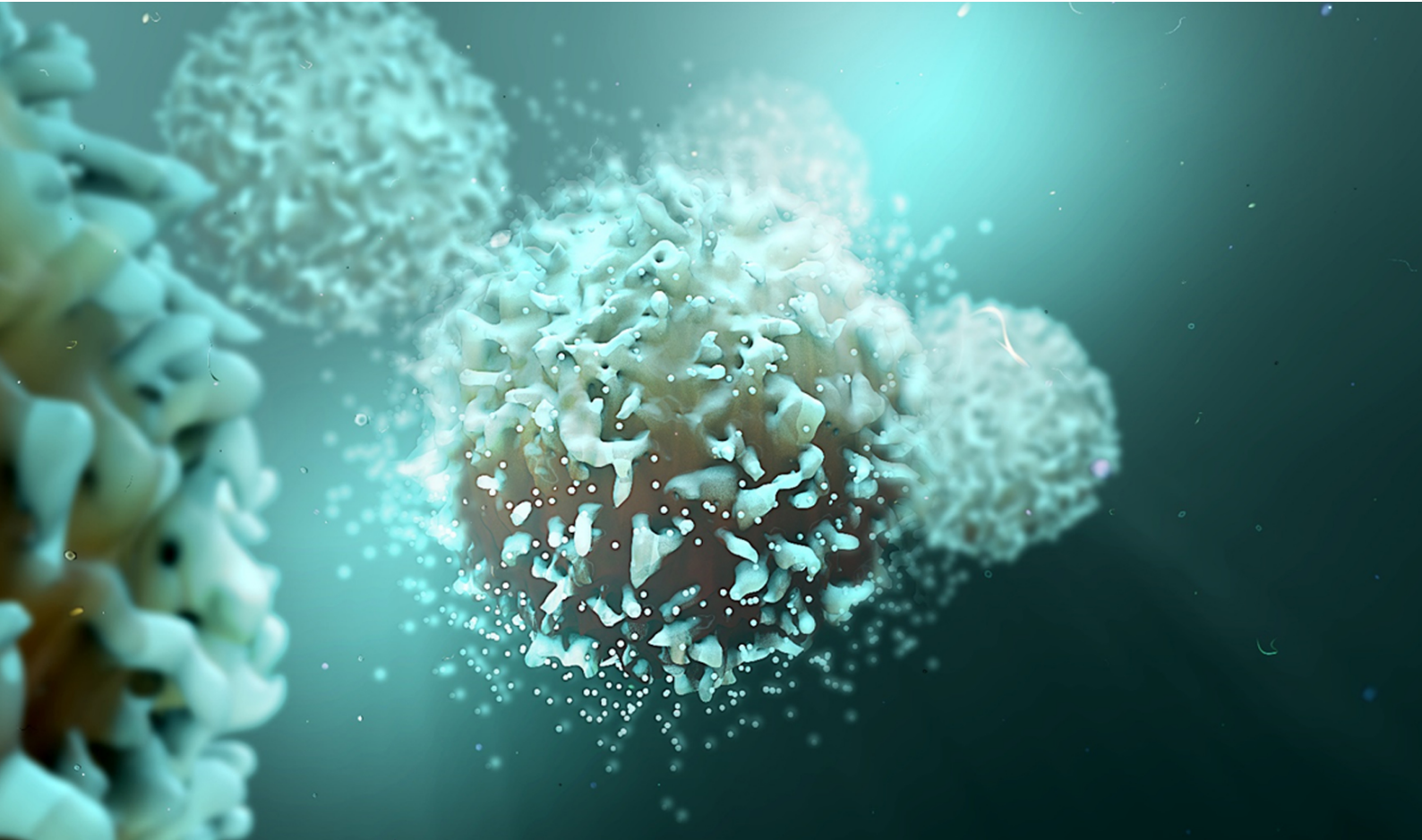


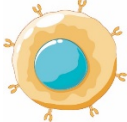
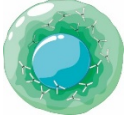
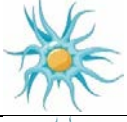
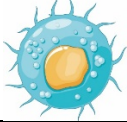







# Human CD Markers



## Creative Diagnostics Human CD Marker Chart

Creative Diagnostics provides human CD marker Chart to support your research.

**CD** Creative Diagnostics<sup>®</sup>

T Cell		<b>Key Markers</b> CD3 CD4 CD8
B Cell		<b>Key Markers</b> CD19 CD20
Dendritic Cell		<b>Key Markers</b> CD11c CD123
NK Cell		<b>Key Markers</b> CD56
Stem Cell/Precursor		<b>Key Markers</b> CD34* <i>*hematopoietic stem cell only</i>
Macrophage/Monocyte		<b>Key Markers</b> CD14 CD33
Granulocyte	 <p style="font-size: small; text-align: center;">Eosinophil      Basophil      Neutrophil</p>	<b>Key Markers</b> CD66b
Platelet		<b>Key Markers</b> CD41 CD61 CD62
Erythrocyte		<b>Key Markers</b> CD235a
Endothelial Cell		<b>Key Markers</b> CD146
Epithelial Cell		<b>Key Markers</b> CD362

Human CD markers are molecules found on the surface of certain immune cells. The term "CD" stands for "cluster of differentiation" and refers to the fact that each marker has a unique identification number assigned by the Human Cell Differentiation Molecular Workshop. Scientists use CD markers to identify and classify different types of immune cells based on their surface characteristics. This is important because different immune cells have different functions in the body, and understanding their role can help in the development of new treatments for diseases and conditions. For example, a specific CD marker might be associated with a type of immune cell involved in fighting cancer, and researchers could use that marker to develop therapies that specifically target those cells. Here Creative Diagnostics compiled a list of human CD markers based on the latest research for researchers to query.

CD Antigen	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-1a, Integrin aL	ICAM-1, 2, 3, 4, CD18	+	+		+		+	+		-	-	
CD11b	Integrin aM, CR3, Mo1, C3niR, Mac-1	iC3b, Fibrinogen, ICAM-1, 2, Factor X	+	+	+	+		+	+		-	-	
CD11c	Integrin aX, p150,95, AXb2, CR4	iC3b, Fibrinogen, ICAM-1, 4	+	+	+	+		+	+		-	-	
CD11d	Integrin aD, ITGAD, ADB2	ICAM3,VCAM1						+					

CD Antigen	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
<b>CDw12</b>	p90-120		-	-		+	+	+	+	-	-		
<b>CD13</b>	ANPEP, Aminopeptidase N, AAP, APM, LAP1, P150, PEPN, APN, gp150, EC 3.4.11.2	NGR,HNF1A, DNAK, NAALADL1, MEPIB, VCP, Corona virus Receptor	+	-		-	+	+	+	-	-	+	+
<b>CD14</b>	LPS-Receptor	Endotoxin, Lipopolysaccharide (LPS),TLR4, LBP, LY96,TLR2	-	-		-		+	+				
<b>CD15</b>	X-Hapten, Lewis X, SSEA-1, 3-FAL, FUT4	Selectins	-	-		-	+	+	+	-	-	-	
<b>CD16</b>	FCRIIA, CD16a, Leu11, FcYRIII	IgG Fc	+	-	+	+		+	+	-	-		
<b>CD16b</b>	FCRIIB, FcYRIIb	IgG Fc	+	-				+	+	-	-		
<b>CD17</b>	Lactosylceramide, LacCer		+	+	+	-		+	+	+	-	+	+
<b>CD18</b>	Integrin $\beta$ 2, CD11a,b, c $\beta$ -subunit	CD11a,b, c	+	+	+	+		+	+	+	-	-	
<b>CD19</b>	B4	CD21, CD81, CD225, Leu-13, Lyn, Fyn, Vav, PI3-kinase	-	+	+	-	+	-	-	-	-	-	-
<b>CD20</b>	B1, Bp35	Lyn, LCK, Fyn, Cell surface protein: 28-30,180-200,50-60 kDa	+	+	-	-	-	-	-	-	-	-	-
<b>CD21</b>	CR2, EBV-R, C3dR	C3d, CD23, CD19, CD81, Leu13	+	+	+	-	+	-	-	-	-	-	+
<b>CD22</b>	BL-CAM, Siglec-2	p72sky, p53/56lyn,SHP1, PI3-kinase, CD45, PLCY1	-	+	-	-	+	-	-	-	-	-	-
<b>CD23</b>	FceRII, B6, BLAST-2, Leu-20	IgE, CD21, CD11b, CD11c	+	+	+	-		+	+	+	-	-	+
<b>CD24</b>	BBA-1, HSA	CD62P (P-Selectin)	-	+	-	-	-	-	+	-	-	-	+
<b>CD25</b>	Tac antigen, IL-2Ra, p55,TCGFR	IL-2	+	+	-	+	-	+	-	-	-	-	-
<b>CD26</b>	DPP IV ectoenzyme, ADA binding protein, ADCP2, TP103	Adenosine deaminase, Collagen, CD45	+	+	-	+	-	+	-	-	-	-	+
<b>CD27</b>	T14, S152, TP55, TNFRSF7	CD70,TRAF5,TRAF2	+	+	-	+	-	-	-	-	-	-	-
<b>CD28</b>	Tp44, T44	CD80, CD86, PI3-kinase	+	-	-	-	-	-	-	-	-	-	-
<b>CD29</b>	Platelet GPIIa, Integrin $\beta$ 1, GP, ITGB1, FNRB, fibronectin receptor beta subunit, VLA-4beta,VLAB	VCAM-1, MAdCAM-1	+	+	+	+	+	+	+	+		+	+
<b>CD30</b>	Ber-H2, Ki-1, CD30L receptor, TNFRSF8,TNR8	CD153,TRAF1, 2, 3, 5	+	+		+	+	+	-	-	-	+	-
<b>CD31</b>	PECAM-1, endoCAM, Platelet endothelial cell adhesion molecule, PECA1	CD38,Glycosaminoglycans (GAGs), Integrin $\alpha$ v $\beta$ 3	+	+		+		+	+	+	-	+	
<b>CD32a</b>	FCYRII, Fc-Y receptor 2,FCGR2A, Low affinity immunoglobulin Y Fc receptor II	IgG	-	+		-		+	+	+	-	-	

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<b>CD32b</b>	FCG2, FCGR2B, IGFR2	IgG, INPP5D/SHIPI	+	+		-		+	+	+	-	+	
<b>CD32c</b>	FCG2, FCGR2C, IGFR2	IgG				+		+	+				
<b>CD33</b>	gp67, SIGLEC-3, Sialic acid-binding Ig-like lectin 3, Myeloid cell surface antigen CD33	Sugar chains containing sialic acid, a-2,6-linked Sialic acid	-	-	+	-	+	+	+	-	-	-	-
<b>CD34</b>	gp105-120, Hematopoietic progenitor cell antigen 1 (HPCA1)	L-Selectin, MadCAM-1, CRKL	-	-	-	-	+	-	-	-	-	+	
<b>CD35</b>	CR1, C3b/C4b receptor, Complement receptor 1, Immune Adherence receptor	C3b, C4b, iC3, iC4	+	+	+	-		+	+	-	+		
<b>CD36</b>	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	-	-	+	-	+	+	-	+	+	+	-
<b>CD37</b>	gp52-40, Leukocyte antigen CD37, Tetraspanin-26, TSPAN26, GP52-40	CD53, CD81, CD82, MHC II	+	+		-		+	+	-	-		
<b>CD38</b>	ADP-ribosyl cyclase, T10, Cyclic ADP-ribose hydrolase 1	CD31, Hyaluronic acid, CD3/TcR complex, CD16, HLA Class II	+	+	+	+	+	+	-				
<b>CD39</b>	Ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1), ATP dehydrogenase, NTP dehydrogenase-1, Ecto-ATPase 1	ADP/ATP	+	+	+	+	+	+		-		+	+
<b>CD40</b>	Bp50, MGC9013, TNFRSF5, Tumor necrosis factor receptor superfamily member 5, CD40L, CDw40	CD154, CD40L, TRAP	-	+	+	-	+	+	-		-	+	+
<b>CD41</b>	GPIIb, Integrin aIIb, Platelet membrane glycoprotein IIb, ITGA2B, Integrin a2b, Human Platelet Antigen-3 (HPA-3)	Fibrinogen, Fibronectin, von Willebrand factor (vWF)	-	-	-	-	+	-	-	+	-	-	-
<b>CD42a</b>	GPIX, GP9, Platelet glycoprotein IX	von Willebrand factor (vWF), Thrombin, CD42b, c, d	-	-	-	-	+	-	-	+	-	-	-
<b>CD42b</b>	GPIba, Platelet glycoprotein Ib a	von Willebrand factor (vWF), Thrombin, CD42a, c, d	-	-	-	-	+	-	-	+	-	-	-

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<b>CD42c</b>	GPIIb, Platelet glycoprotein IIb	von Willebrand factor (vWF), Thrombin, CD42a,b, d	-	-	-	-	+	-	-	+	-	-	-
<b>CD42d</b>	GPV, Platelet glycoprotein V	von Willebrand factor (vWF), Thrombin, CD42a,b, c	-	-	-	-	+	-	-	+	-	-	-
<b>CD43</b>	Sialophorin, Leukosialin, Galactoglycoprotein, SPN, GPL115, SPN, LSN	Hyaluronan, EZR, Moesin	+	+		+	+	+	+	+	-		
<b>CD44</b>	ECMII, 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, MIP1, Osteopontin, Collagen, Matrix metal- loproteinases (MMPs)	+	+		+		+	+	-	+	+	+
<b>CD45</b>	Leukocyte Common Antigen (LCA), T200, B220, Ly5, Protein tyrosine phosphatase receptor type C (PTPRC)	p56lck, p59fyn, Src kinases	+	+	+	+	+	+	+	-	-	-	-
<b>CD45RA</b>	PTPRC	p56lck, p59fyn, Src kinases	+	+	+	+	+	+	-	-	-	-	-
<b>CD45RB</b>	PTPRC	p56lck, p59fyn, Src kinases	+	+	+	+	+	+	-	-	-	-	-
<b>CD45RC</b>	PTPRC	p56lck, p59fyn, Src kinases	+	+	+	+	+	+	-	-	-	-	-
<b>CD45RO</b>	CD45R, PTPRC, LCA, Leukocyte common antigen, GP180, LY5, T200	p56lck, p59fyn, Src kinases	+	+	+	+	+	+	-	-	-	-	-
<b>CD46</b>	Membrane Cofactor Protein (MCP), Trophoblast leukocyte common antigen, TRA2.10, TLX	SCR2/3/4, Serum Factor 1 protease, CD9, CD29, CD151	+	+		+		+	+	+	-	+	+
<b>CD47</b>	gp42, IAP, OA3, Neuropilin, MER6	SIRP, CD61, Thrombospondin	+	+		+		+	+	+	+	+	+
<b>CD48</b>	Blast-1, Hulym3, BCM-1, OX-45, MEM-102	CD2, lck, fyn, CD229, CD244	+	+	+	+	+	+	-	-	-		
<b>CD49a</b>	VLA-1a, Integrin a1	Collagen, Laminin	+	-	+	+		+	-	-	-	-	
<b>CD49b</b>	VLA-2a, Integrin a2, gPIa, Integrin a2 chain, ITGA2, Platelet GPIa, Collagen receptor, BR	Collagen, Laminin, MMP-1	+	+		+	+	+	-	+	-	+	+
<b>CD49c</b>	VLA-3a, Integrin a3, GAPPB3, Galactoprotein B3, MSK18, Very	Collagen, Laminin, CD9	+	+		-		+			-	+	+

CD Antigen	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
	Common Antigen-2 (VCA-2)		+	+		+		+			+	+	+
<b>CD49d</b>	VLA-4a, Integrin a4, Integrin a4 chain, Integrin alpha 4, ITGA4, IA4, alpha 4 subunit of VLA-4	CD106, MAdCAM, Fibronectin, Paxillin	+	+	+	+	+	+	-	-	-	+	
<b>CD49e</b>	VLA-5a, Integrin a5, Fibronectin receptor	Fibronectin, Invasin, Fibrinogen	+		+	+	+	+			+	+	+
<b>CD49f</b>	VLA-6a, Integrin a6, gpl, TGA6, ITA6	Laminin, Invasin	+				+	+		+		+	+
<b>CD50</b>	ICAM-3	LFA-1, Integrin ad/β2	+	+		+	+	+	+	-	-	+	-
<b>CD51</b>	Integrin av, VNR-a, Vitronectin-Ra	Fibrinogen, Vitronectin, MMP-2, vWF, TSP						+	-	+		+	
<b>CD52</b>	CAMPATH-1, HE5, Epididymal secretory protein E52		+	+	+	+		+	+	-	-		+
<b>CD53</b>	MOX44, TSPAN25, Tetraspanin-25	VLA-4, HLA-DR, Integrins	+	+	-	+	+	+	+	-	-		-
<b>CD54</b>	ICAM-1, intercellular adhesion molecule 1, BB2, P3.58	LFA-1, Mac-1, Rhinovirus	+	+				+				+	
<b>CD55</b>	Decay Accelerating Factor for Complement (DAF), CR, CROM, TC	SCR, CD97, Echoviruses	+	+		+	+	+	+	+	+	+	+
<b>CD56</b>	Leu-19, NKH-1, Neural Cell Adhesion Molecule (NCAM)	NCAM-1, Heparin sulfate	+			+							
<b>CD57</b>	HNK1, Leu-7, β-1,3-glucuronyltransferase 1, Glucuronosyltransferase P, galactosyl-galactosylxylosylprotein 3-β-glucuronosyltransferase 1	L-Selectin, P-Selectin, Laminin	+			+							
<b>CD58</b>	LFA-3	CD2, LFA-2	+	+	+	+		+	+		+	+	+
<b>CD59</b>	1F5Ag, H19, Protectin, MAC1F, M1RL, P-18	C8-a, C9, Ick, fyn	+			+		+	+		+		
<b>CD60a</b>	GD3		+	+				+	+	+	-		
<b>CD61</b>	GP IIIa, Integrin β3	Fibrinogen, PTK2, ITGB3BP, TLN1 and CIB1						+		+		+	
<b>CD62E</b>	E-Selectin, ELAM-1, LECAM-2	Sialyl Lewis x, a, CLA, CD162										+	
<b>CD62L</b>	L-Selectin, LAM-1, LECAM-1, MEL-14, Leu8, TQ1	CD34, GlyCAM-1, MAdCAM-1	+	+		+		+	+				
<b>CD62P</b>	P-Selectin, GMP-140, PADGEM	CD162, CD24								+		+	

CD Antigen	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
<b>CD63</b>	LIMP, MLA1, gp55, NGA, LAMP-3, ME491, OMA81H,TSPAN30, Granulophysin, Melanoma 1 antigen	VLA-3,VLA-6, CD81, CD9, PI4-kinase, CD117, CD82	+	+	-	+		+	+	+		+	
<b>CD64</b>	FcγRI, Fc-γ Receptor 1, High affinity immunoglobulin γ Fc Receptor 1, FcγRIA	IgG	-	-	+	-	+	+	+	-	-	-	-
<b>CD65</b>	Ceramide-dodecasaccharide, VIM2, Fucoganglioside (Type II)	CD62E (E-Selectin)	-	-				+	+				
<b>CD65s</b>	Sialylated poly-N-acetyllactosamine, Sialylated-CD65, VIM2,VIM-2, M2	CD62E (E-Selectin)	-	-				+	+				
<b>CD66a</b>	CD66, NCA-160, BGP (Biliary glycoprotein), BGP1, BGPI, CEACAM1	CD62E, CD66c, CD66e, Src kinases	-	-		-			+	-	-	-	+
<b>CD66b</b>	CD67, CGM6, NCA-95, CEACAM8	CD66c, e, Src kinases	-	-		-			+	-	-	-	
<b>CD66c</b>	NCA, NCA-50/90,CEAL, CEACAM6	CD62E, Galectins, CD66a,b, c, e, Src kinases	-	-		-			+	-	-	-	+
<b>CD66d</b>	CGM1, CEACAM3		-	-		-			+	-	-	-	
<b>CD66e</b>	CEA CEACAM5	CD66a, c, e	-	-		-				-	-	-	+
<b>CD66f</b>	B1G1, CD66f, DHFRP2, FLJ90598, FLJ90654, PBG1, PSBG1, PSGGA, PSGIIA, SP1, SP-1, PSBG1, B1G1, PBG1, PSGGA		-	-		-				-	-	-	+
<b>CD68</b>	gp110, Macrosialin,SCARD1, Macrophage antigen CD68	LDL	+	+	+		+	+	+	-	-		
<b>CD69</b>	AIM, EA 1,MLR3, gp34/28, VEA, CLEC2C, BL-AP26, Early activation antigen CD69		+	+		+		+	+	+			
<b>CD70</b>	TNFSF7, CD27LG, CD27L, Ki-24	CD27 ligand	+	+	-	-	-	-	-	-	-	-	-
<b>CD71</b>	TFRC, T9, Transferrin receptor, TFR, TRFR	Transferrin	-	-	-	-	+				-	+	
<b>CD72</b>	Ly-19.2, Ly-32.2, Lyb2	CD5		+		-	+	+	-	-	-		
<b>CD73</b>	Ecto-5'-nucleotidase, NT5E, E5NT, NT5,NTE,eN, eNT	AMP	+	+	+	-	+	-	-	-	-	+	+
<b>CD74</b>	DHLAG, HLADG, Ia-Y, Ii, invariant chain	HLA-DR, CD44	+	+	+			+				+	+

CD Antigen	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
<b>CD75</b>	ST6GAL1,MGC48859, SIAT1, ST6GALL, ST6N, ST6 β-Galactosamide a-2,6-sialyl-tranferase, Sialo-masked lactosamine, Carbohydrate of a2,6 sialyltransferase	CD22		+		-	-	+	-	-	+	-	-
<b>CD75S</b>	a2,6 Sialylated lactosamine	CD22 (proposed)	+	+		-	-	+	+	-	+	+	+
<b>CD77</b>	A14GALT (a 1,4-Galactosyltransferase), A4GALT1, Gb3S, P(k), P1, PKA4GALT, Pk antigen, BLA,CTH/Gb3A4GALT1, Gb3S, P(k), P1, PK	Shiga toxin, Verotoxin 1, CD19	-	+		-	-	-	-	-	-	+	+
<b>CD79a</b>	IGA (Immunoglobulin-associated a), MB-1	Ig, CD5, CD19, CD22, CD79b	-	+		-	-	-	-	-	-	-	-
<b>CD79b</b>	IGB (Immunoglobulin-associated β), B29	Ig, CD5, CD19, CD22, CD79a	-	+		-	-	-	-	-	-	-	-
<b>CD80</b>	CD28LG, CD28LG1, LAB7, B7, B7-1, BB1,T-lymphocyte activation antigen CD80	CD28, CD152 (CTLA-4)	+	+	+	-	-	+	-	-	-	-	-
<b>CD81</b>	TAPA1, S5.7	Leu-13, CD19, CD21	+	+	+	+	+	+	-	-	-	+	+
<b>CD82</b>	4F9, C33, IA4, KAI1, R2, ST6, SAR2, GRI5,Tspan-27	MHC-I, MHC-II, CD4, CD8, Integrin β1	+	+		+	+	+	+	+	-	+	+
<b>CD83</b>	HB15, BL11		-	+	+	-	-	-	-	-	-	-	-
<b>CD84</b>	LY9B, SLAMF5, p75, GR6,hly9-β	CD84	+	+	+	+	-	+	-	+	-	-	-
<b>CD85A</b>	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	+	-	+	-	+	+	+	-	-	-	-
<b>CD85C</b>	LILRB5 (Leukocyte immunoglobulin-like receptor, subfamily B)(with TM and ITIM domains), member 5, LIR8					+		+					
<b>CD85D*</b>	LILRB2 (Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM	HLA class I	-	-	+	-	-	+	+	-	-	-	-

CD Antigen	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
	domains), member 2, LILRB2, ILT4, LIR2, MIR10, MIR-10												
<b>CD85E</b>	LILRA3 (Leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3, HM31, HM43, ILT6, LIR-4, LIR4, e3			+	+	+		+					
<b>CD85F</b>	XXbac-BCX403H19.2, CD85, CD85F, LIR9, ILT11, LILRB7 (Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 7							+					
<b>CD85G</b>	LILRA4 (Leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 4, ILT7, MGC129597, MGC129598				+			+	+				
<b>CD85H</b>	LILRA2 (Leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2, ILT1, LIR7, LIR-7, XXbac-BCX85G21.2, ILT-1												
<b>CD85I</b>	LILRA1 (Leukocyte immunoglobulin-like receptor), subfamily A (with TM domain), member 1, LIR-6, LIR6, MGC126563			+				+					
<b>CD85J*</b>	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	+	+	+	+	-	+		-	-	-	-
<b>CD85K*</b>	LILRB4 (Leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 4, ILT3, LIR-5, HM18, LIR5, LILRB5	HLA class I	-	-	+	-	+	+	+	-	-	-	-

CD Antigen	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
<b>CD85L</b>	LILRP1 (Leukocyte immunoglobulin-like receptor pseudogene 1), ILT9, LILRA6P		+	+	+	+		+					
<b>CD85M</b>	LILRP2 (Leukocyte immunoglobulin-like receptor pseudogene 2), ILT10, LILRA5		+	+	+			+					
<b>CD86</b>	B7-2/B70, CD28LG2, LAB72, MGC34413	CD28, CD152 (CTLA-4)	+	+	+	-	-	+	-	-	-	+	-
<b>CD87</b>	Upar, PLAUR, URKR	uPA, Pro-UPA, Vitronectin	+	-		+	-	+	+	-	-	+	-
<b>CD88</b>	C5R1, C5aR, C5AR, C5A	C5a/C5a(desArg), Anaphylatoxin	-	-	+	-	-	+	+	-	-	+	+
<b>CD89</b>	FCAR	IgA1, IgA2	-	-		-		+	+	-	-	-	-
<b>CD90</b>	Thy-1, CDw90	CD45,lck, fyn, P100	-	-		-	+	-	-	-	-	+	-
<b>CD91</b>	LRP1, a2M-R, a2MR, APOER, APR, LRP	RAP, a2M, apoE, Lactoferrin, LDLs	-	-		-		+	-	-	-	-	+
<b>CD92</b>	SLC44A1, CTL1, CHTL1, RP11-287A8.1, p70		+	+				+	+	-	-	+	+
<b>CD93</b>	C1QR1, C1qRP, MXRA4, C1qR(P), Dj737e23.1, GR11		-	-	-	-	-	+	+	-	-	+	-
<b>CD94</b>	KLRD1, Kp43	HLA class I, NKG2-A, p39	+	-		+		-	-	-	-	-	-
<b>CD95</b>	CD178, FASLG, APO-1, FAS, TNFRSF6, CD95L, APT1LG1, APT1, FAS1, FASTM, ALPS1A, TNFSF6, FASL	CD178 (Fas ligand)	+	+		+		+	+	-	-		
<b>CD96</b>	TACTILE, MGC22596		+	-		+		-	-	-	-		
<b>CD97</b>	TM&LN1, BL-KDD/F12	CD55 (DAF)	+	+	+	+		+	+	-	-		
<b>CD98</b>	SLC3A2, 4F2, 4F2HC, 4T2HC, MDU1, NACAE, FRP-1, RL-388	Actin	+	+		+		+	+	+	-	+	+
<b>CD99</b>	MIC2, E2 antigen, MIC2X, MIC2Y, HBA71, MSK5X		+	+		+	+	+	-	+	+	+	+
<b>CD99R</b>	CD99 Mab restricted		+	-		+	-	+		-	-		
<b>CD100</b>	SEMAJ, coll-4, C9orf164, FLJ33485, FLJ34282, FLJ39737, FLJ46484, M-sema-G, MGC169138, MGC169141, SEMA4D, SEMAJ	CD45, Serine kinase	+	+	-	+	-	+	+	-	-	-	
<b>CD101</b>	IGSF2, PI26, V7, BA27, BPC#4, PI26, V7-LSB		+	-	+	-		+	+	-	-		
<b>CD102</b>	ICAM-2, Ly60	LFA-1, CD11b/CD18, Integrin αβ2	+	+				+	-		-	+	
<b>CD103</b>	HML-1, Integrin αE, ITGAE, OX62, HML1	E-Cadherin, Integrin β7	+	-		-		-	-	-	-	-	

CD Antigen	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
<b>CD104</b>	Integrin $\beta$ 4, TSP1180,ITGB4,TSP-180	Laminins (I,II,IV,V), CD49F, Integrin $\alpha$ 6	-	-		-	+	-	-	-	-	+	+
<b>CD105</b>	Endoglin, HHT1, ORW, SH-2	TGF- $\beta$ 1,TGF- $\beta$ 3	-	-		-	+	+	-	-	-	+	
<b>CD106</b>	VCAM-1, INCAM-100	Integrin $\alpha$ 4 $\beta$ 1,VLA-4	-	-	-	-		-	-	-	-	+	
<b>CD107a</b>	LAMP-1, LAMPA, CD107a, LGP120		+	-		-			+	+	-	+	
<b>CD107b</b>	LAMP-2, LAMPB		+	-		-			+	+	-	+	
<b>CD108</b>	SEMA7A,JMH blood group antigen	CD232,Tyrosine kinases	+	+					-	-	+		
<b>CD109</b>	8A3, E123 7D1,150kDTGF- $\beta$ 1-binding protein, Platelet-specific Gov antigen		+	-		-	+	-	-	+	-	+	
<b>CD110</b>	TPO-R, MPL, C-MPL	TPO, JAK2	-	-	-	-	+	-	-	+	-	+	+
<b>CD111</b>	PVRL1, HveC, PRR1, Nectin1, HIgR,CLPED1	Nectin3,Afadin gD	-	-			+	+	-	+	+	+	+
<b>CD112</b>	HveB, PRR2, PVRL2, Nectin2	PRR3,Afadin, CD112	-				+	+	-	+	-	+	+
<b>CD113</b>	PVRL3, Nectin3, PRR3	Afadin, MLLT4, PARD3											+
<b>CD114</b>	CSF3R, G-CSFR, HG-CSFR	G-CSF, Jak1, Jak2	-	-		-	+	+	+	+	-	+	
<b>CD115</b>	c-fms, CSF-1R, M-CSFR, FIM2, FMS	CSF-1, Phosphotyrosine binding proteins	-	-	-	-	+	+	-	-	-		
<b>CD116</b>	GM-CSFR $\alpha$ , CDw116, CSF2R, CSF2RAX, CSF2RAY, CSF2RX, CSF2RY, GM-CSF-R- $\alpha$ , GMCSFR, GMR, MGC3848, MGC4838	GM-CSF, CD131	-	-	+	-		+	+	-	-		
<b>CD117</b>	c-KIT, SCFR, PBT	SCF, MGF, KL, PI3-kinase	-	-	-	-	+	-	-	-	-	-	
<b>CD118</b>	LIFR, gp190,SJS2, STWS, SWS	IFN- $\alpha$ , IFN- $\beta$	-	-		-		+	+		-		+
<b>CD119</b>	IFNYR, IFNYRa	IFNYR, IFNYR1	+	+		+		+	+		-	+	
<b>CD120a</b>	CD120a, PPF, MGC19588,TBP1,TNF-R,TNF-R-I,TNF-R55, TNFAR, TNFR1,TNFR55, TNFR60, p55, p55-R, p60	TNF, TRADD, TRAF, RiP, Lta	+	+	+	+		+	+		-	+	+
<b>CD120b</b>	TNFRII, p75,TNFR p80	TNF, TRADD, TRAF, RiP, LTa	+	+	+	+		+	+		-	+	+
<b>CD121a</b>	Type 1 IL-1R,CD121A, D2S1473, IL-1R- $\alpha$ , IL1R, IL1RA, P80	IL-1 $\alpha$ and IL-1 $\beta$ , IL1RA	+	-	-	-		-	-	-	-	+	-
<b>CD121b</b>	Type 2 IL-1R	IL-1 $\beta$ , IL-1 $\alpha$ , IL1RA	+	+				+	-	-	-	-	-
<b>CD122</b>	IL2R $\beta$ , p70-75	IL-2, IL-15, CD25, CD132, Syk,Lck, Jak1, Stat5	+	+		+		+	-	-	-	-	
<b>CD123</b>	CD123, IL3R, IL3RAY, IL3RX, IL3RY, MGC34174, hIL-3Ra	IL-3, CD131	-	-	+		+	-	+			+	

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CD124	IL-4Ra	IL-4, IL-13, CD132, Jak1, Fes, Stat6, IRS-2	+	+		-	+	+	-	-	-	-	+
CD125	IL-5Ra	CDw125, HSIL5R3, IL5R, MGC26560	-	+		-		-	+	-	-	-	
CD126	IL-6Ra	IL-6, CD130	+	+	-	-	+	-	-				
CD127	p90, IL-7R, IL-7Ra	IL-7, CD132, fyn,lyn, Jak1, PI3-kinase, Lck	+	-			+	+	-	-	-	-	
CD129	IL-9Ra	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 Y chain, IL-2RY	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	Fit3, Flk2, STK1	FL (Fit3 ligand)	-	-	-	-	+	-	-	-	-		
CD136	MSP-R, RON, p158-ron	MSP, HGFI, Shc, PLC-Y						+					+
CD137	4-1BB, ILA, TNFRSF9	4-1BB ligand	+	+		-		+	-				+
CD138	Syndecan-1, Heparan sulfate proteoglycan	Collagen I, III,V, Fibronectin, TSP	-	+		-	+	-	-	-	-	+	+
CD139	None		-	+	+	-	-	+	+		+		
CD140a	PDGF a 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-dipeptidaseA, 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, PTPID	+	+	-	-		-	-	-			
CD153	CD30L,TNSF8	CD30	+		-			+	+				

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<b>CD154</b>	CD40L, gp39, TRAP-1, T-BAM, IMD3	CD40	+	-	-	-		-			-	-	
<b>CD155</b>	PVR, PVS, TAGE4, HVED				-			+		-			
<b>CD156a</b>	CD156, ADAM8, MS2	Myeloid						+	+				
<b>CD156b</b>	TACE, ADAM17, cSVP	pro-TNF, pro-TGF $\alpha$ , MAD2	+	-	+	-	-	+	+	-	-	+	-
<b>CD156C</b>	ADAM10, MADM, kuz							+					
<b>CD157</b>	Mo5, BST-1	NAD, Cyclic ADP-ribose			+		+	+	+			+	
<b>CD158a</b>	KIR2DL1, p58.1, NKAT1	HLA-Cw4, 2, 5, 6	+			+							
<b>CD158b1</b>	KIR2DL2, p58.2, NKAT6	HLA-Cw3, 1, 7, 8	+			+							
<b>CD158b2</b>	KIR2DL3, p58.3, NKAT2	HLA-Cw3, 1, 7, 8	+			+							
<b>CD158d</b>	KIR2DL4, KIR103	HLA-Bw4	+			+							
<b>CD158e1/e2</b>	KIR3DL1/S1, p70, NKAT3, NKB1	HLA-Bw4	+			+							
<b>CD158f</b>	KIR2DL5		+			+							
<b>CD158g</b>	KIR2DS5		+			+							
<b>CD158h</b>	KIR2DS1, p50.1	HLA-C	+			+							
<b>CD158i</b>	KIR2DS4, p50.3	HLA-C	+	-		+							
<b>CD158j</b>	KIR2DS2, p50.2	HLA-C	+			+							
<b>CD158k</b>	KIR3DL2, p140	HLA-A	+			+							
<b>CD159a</b>	NKG2A	CD94/CD159a heterodimer binds to HLA-E	+			+							
<b>CD159c</b>	NKG2C	C type Lectin superfamily member				+							
<b>CD160</b>	BY55, NK1, NK28	MHC class I	+	-		+							
<b>CD161</b>	NKR, NKRP1A		+	-	-	+			-	-	-	-	
<b>CD162</b>	PSGL-1	Selectins	+	+			+	+	+	-	-	-	
<b>CD163</b>	M130, GHI/61, RM3/1	Hemoglobin	-	-	-			+	-	-	-	-	-
<b>CD164</b>	MGC-24, MUC-24		+	+			+	+	-		-	-	+
<b>CD165</b>	AD2, gp37		+	+			-	+	-	+	-		+
<b>CD166</b>	ALCAM, KG-CAM, SC-1, BEN, DM-GRASP	CD6, CD166, NgCAM	+	+				+	-			+	+
<b>CD167a</b>	DDR1, trkE, cak	ShcA, FRS2, Collagens		+	+								+
<b>CD168</b>	RHAMM, IHABP, HMMR	Ras, Src, Erk, Actin, Calmodulin, MAPKK, Hyaluronic acid	-	-	+		+	+					
<b>CD169</b>	Sialoadhesin, Siglec-1	CD227, CD206, CD43, $\alpha$ 2, 3-Sialylated ligands						+					
<b>CD170</b>	Siglec-5	Sialylated glycans	-	+	+	-		+	+				
<b>CD171</b>	L1CAM, HSAS, HSAS1, MASA, MIC5, N-CAML1, S10, SPG1, NILE	CD171, Neurocan, Phosphocan, Laminin, CD9, CD24, CD56, Axonin-1, CD51/61,	+	+	+			+	+			+	

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		CD41/61, CD49e/CD29, a-9, Ankyrins, Kinases											
<b>CD172a</b>	BIT, MFR, MYD-1, P84, SHPS-1, SHPS1, SIRP, SIRPa, SIRPa2	CD47, PTPN11			+		+	+	+				
<b>CD172b</b>	SIRPβ	TYROBP			+			+					
<b>CD172g</b>	SIRPY, SIRP-B2, bA77C3.1		+			+							
<b>CD173</b>	Blood group H type 2, FUT1					-	+				+	+	
<b>CD174</b>	Lewis Y, FUT3, Les, FT3B					-	+						+
<b>CD175</b>	Tn		-	+		-	+						+
<b>CD175s</b>	Sialyl-Tn (s-Tn)		-	+		-	+					+	+
<b>CD176</b>	TF Antigen			-			+				+	+	+
<b>CD177</b>	NB1, HNA-2a, NB1gp, Neutrophil-specific antigen 1, PRV1								+				
<b>CD178</b>	Fas Ligand, FASL, CD95L, TNFSF6, APTILG1	DcR3, CD95 (Fas), TNFRSF6B, PTPN12, FADD, TNFRSF1A	+	-		+		-	+	-	-	+	+
<b>CD179a</b>	VpreB, IGVpB, VPReB1, Immunoglobulin iota chain	CD179b, Ig μ heavy chain	-	+	-	-	-	-	-	-	-	-	-
<b>CD179b</b>	lambda5, 14.1, IGL5, IGGL1	CD179a, Ig μ heavy chain	-	+	-	-	-	-	-	-	-	-	-
<b>CD180</b>	RP105, Bgp95, Ly64, Ly78,	MD-1		+	+			+					
<b>CD181</b>	(formerly CD128a) CXCR1, IL-8Ra	IL-8	+					+	+				
<b>CD182</b>	(formerly CD128b) CXCR2, IL-8Rβ, CMKAR2, IL8R2	IL-8	+					+	+				
<b>CD183</b>	CXCR3, GPR9, CKR-L2, CMKAR3, IPI0, Mig-R, TAC	IPI0, Mig, I-TAC	+			+	+		+				
<b>CD184</b>	CXCR4, NPY3R, Fusin, CMKAR4, LESTR, HM89, FB22, LCR1	SDF-1, viral MIP-2, CXCL12	+	+	+	-		+	+			+	
<b>CD185</b>	CXCR5, BLR1, MDR15, MGC117347	CXCL13, CCL13	+	+	+	+		-	-				
<b>CD186</b>	CXCR6, STRL33, TYMSTR, BONZO		+										
<b>CD191</b>	CCR1, CKR1, CD191, CKR-1, HM145, CMKBR1, MIPIaR, SCYAR1	MIP-1a, RANTES, MCP-3, MIP-5, LD78	+				+	+					
<b>CD192</b>	CCR2, CKR2, CCR2A, CCR2B, CKR2A, CKR2B, CMKBR2, MCP-1-R, CC-CKR-2, FLJ78302, MGC103828, MGC111760, MGC168006	MCPs	+	+				+	+			+	
<b>CD193</b>	CCR3, CKR3, CMKBR3, CC-CKR-3, MGC102841	CCL11, CCL26, MCP-3 (CCL7), MCP-4 (CCL13), RANTES(CCL5)	+		+				+				

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<b>CD194</b>	CCR4, CC-CKR-4,CKR4,CMKBR4,ChemR13, HGCN	MIP-1, RANTES, TARC, MCP-1	+					+		+			
<b>CD195</b>	CCR5, CMKBR5, IDDM22, CC-CKR-5, FLJ78003	MIP-1a, 1b, MCP-2, RANTES	+	-		-		+	+	-	-	-	
<b>CD196</b>	CCR6, BN-1, DCR2, DRY6, CKRL3, GPR29, CKR-L3, CMKBR6, GPRCY4, STRL22, CC-CKR-6	MIP-3a	+	+	+	-		-	-				
<b>CD197</b>	CCR7 (formerly CDw197),BLR2,EBI1, CMKBR7	CCL19/ECL, CCL21	+	+	+								
<b>CDw198</b>	CCR8,CKR-L1, CKRL1, CMKBR8, CMKBR2, CY6, GPR-CY6, TER1	I-309,TARC, MIP-1b	+					+					
<b>CDw199</b>	CCR9, GPR28, GPR-9-6	CCL25	+										
<b>CD200</b>	OX2, MRC, MOX1, MOX2	CD200R1	-	+	+	-	+	-	-	-	-	+	
<b>CD201</b>	EPCR,CCCA, CCD41, MGC23024, bA4204.2, PROCR	Protein C					+					+	
<b>CD202b</b>	TEK, Tie2, VMCM, TIE-2,VMCM1	Angiopoietin-1, 2, and 4										+	
<b>CD203c</b>	PDNP3, B10, PDIβ, E-NPP3	cAMP, NAD, Nucleoside phosphates					+		+				
<b>CD204</b>	MSR, SR-A, phSR1,phSR2,SCARA1, MSR1	LDL, β-Amyloid fibrils						+					
<b>CD205</b>	DEC-205, CLEC13B, GP200-MR6, LY75	MIR98	+	+	+		+	+					
<b>CD206</b>	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			+			+				+	
<b>CD207</b>	Langerin, C-type Lectin domain family 4 member K (CLEC4K)	Mannose-bearing glycoproteins and glycolipids on microbial pathogens, including HIV gp120			+								
<b>CD208</b>	Lysosomal-associated membrane protein 3 (LAMP3), DC-LAMP, DCLAMP, LAMP, TSC403				+								

CD Antigen	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
<b>CD209</b>	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			+			+				+	
<b>CD210a</b>	Interleukin 10 Receptor A (IL-10RA, IL-10R1), CDw210a	IL-10, vIL-10	+	+	-	-		+	-				
<b>CD210b</b>	Interleukin 10 Receptor B (IL-10RB, IL-10R2), CDw210b, CRF2-4, CRFB4	IL-10 and vIL-10	+	+	+	+		+					
<b>CD212</b>	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	+	+	-	+		-	-				
<b>CD213a1</b>	Interleukin 13 receptor α1 chain (IL-13Ra1), NR4	IL-13, IL-4, associates with IL-4Ra to form receptors		+	+			+				+	
<b>CD213a2</b>	Interleukin 13 receptor α2 chain (IL-13Ra2), interleukin-13-binding protein (IL13BP)	IL-13		+				+					
<b>CD215</b>	Interleukin 15 receptor alpha chain (IL-15RA)	IL-15	+	+	-	-		-	-				
<b>CD217</b>	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)	+	+	+	+	+	+	+			+	
<b>CD218a</b>	Interleukin 18 receptor 1 (IL-18R1), IL-18RA, IL-18Ra, IL1 receptor-related protein (IL-1Rrp), IL-R5, CDw218a	IL-18, associates with IL-18Rβ to form high-affinity IL-18 receptor	+	+	+	+			+			+	
<b>CD218b</b>	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-18Ra to form high-affinity IL-18 receptor	+	+	+	+			+				
<b>CD220</b>	Insulin receptor (INSR), IR	Insulin, IGF-2	+	+	+	+	+	+	+			+	+

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<b>CD221</b>	Insulin-like growth factor 1 receptor (IGF1R), IGF-1R, type I IGF receptor (IGF-1R), JTK13	Insulin-like growth factor 1 (IGF-I), IGF-II, Insulin	+	+	+	+	+	+	+			+	+
<b>CD222</b>	Cation-independent mannose-6-phosphate receptor (M6P-R, CIM6PR, CIMPR, CI-MPR), Insulin-like growth factor 2 receptor (IGF2R,IGFIIR, IGF-IIR),MPRI, 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	+	+	+	+	+	+	+			+	+
<b>CD223</b>	Lymphocyte activation gene 3 (LAG3, LAG-3), FDC protein	MHC class II,TCR-CD3 complex	+	-	-	+	+						
<b>CD224</b>	Y-Glutamyl transferase 1 (GGT1),Y-Glutamyl transpeptidase 1 (GGTP), GGT, GTG, EC2.3.2.2	Glutathione, GSH, Leukotriene C4, GSNO	+	+			+	+	+			+	+
<b>CD225</b>	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	+	+		+	+					+	
<b>CD226</b>	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	+	+		+	+	+	-	+	-		-
<b>CD227</b>	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	+	+	+		+	+					+

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<b>CD228</b>	Melanotransferrin (MT, MTF1), p97 Melanoma antigen (p97, MAP97), Mfi2, gp95	Iron, Plasminogen, pro-UPA					+					+	
<b>CD229</b>	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	+	+	+	+	+	-	-	-	-		
<b>CD230</b>	Prion protein (PrP, PRNP), Major prion protein, prP27-30,prP33-35C, PrPc	CD230 (homophilic binding), N-CAM (CD56)	+	+	+	+	+	+	+			+	+
<b>CD231</b>	Tetraspanin 7 (TSPAN7),T-cell acutelymphoblastic leukemia-associated antigen 1 (TALLA-1),Transmembrane 4 superfamily member 2 (TM4SF2), Membrane component X chromosome surface marker-1 (MXS1), A15		T-AL L										
<b>CD232</b>	Plexin C1 (PLXNC1), Virus-encoded semaphorin protein receptor (VESPR,VESP-R)	Semaphorin 7A (CD108), Poxvirus semaphorin A39R		+	+	+		+	+				
<b>CD233</b>	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	-	-	-	-		-	-		+		
<b>CD234</b>	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	-	-	-	-		-	-		+	+	+
<b>CD235a</b>	Glycophorin A (GYPA), Sialoglycoprotein a, Sialoglycoprotein A, MN blood group antigen, PAS-2	CD170, Influenzavirus, Plasmodium falciparum erythrocyte binding antigen EBA-175	-	-	-	-	+	-	-		+		
<b>CD235b</b>	Glycophorin B (GYPB), Sialoglycoprotein δ, ss-Active						+				+		

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	sialoglycoprotein, SS blood group antigen, PAS-3												
<b>CD236</b>	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					+				+		
<b>CD236R</b>	Glycophorin C, GYPC	Plasmodium falciparum erythrocyte binding protein 2 (PfEBP-2), p55, band 4.1					+				+		
<b>CD238</b>	Kell blood group glycoprotein (Kel), Kell blood group antigen, Endothelin-3-converting enzyme (ECE3)	Big endothelin-3 (intermediate precursor of endothelin-3)					+				+		
<b>CD239</b>	Basal cell adhesion molecule (BCAM, B-CAM), Lutheran blood group glycoprotein, Lutheran blood group antigen (Lu)	a5 chain of Laminin 10/11									+	+	+
<b>CD240</b>	Rh blood group system, CD240CE (Rh30CE, Cc & Ee blood antigens), CD240D (Rh30D, D blood antigen), CD240DCE (Rh30D/CE)	CD241, CD242, CD47, CD235b					+				+		
<b>CD241</b>	RhAG, Rh50A, RH2	ANK1	-	-	-	-	-	-	-	-	+		
<b>CD242</b>	ICAM4, LW	LFA-1, Mac-1, VLA-4	-	-	-	-	+	-	-	-	+	+	
<b>CD243</b>	ABC20, CD243, CLCS, GP170, MDR1, P-gp, PGY1		-	-		-	+	-	-	-	-		
<b>CD244</b>	2B4, NAIL, NKR2B4, Nmrk, SLAMF4	CD48	+	-	+	+		+	+				
<b>CD245</b>	p220/240	Lymphocyte receptor	+	+		+		+	+	+			
<b>CD246</b>	ALK, TFG/ALK, NBLST3	Pleiotrophin	+									+	
<b>CD247</b>	CD3-ζ, CD3H, CD3Q, CD3Z, T3Z, TCRZ	Janus kinase 3, Protein unc-119 homolog	+			+							
<b>CD248</b>	TEM1, Endosialin, CD164L1, MGC119478, MGC119479	Collagen I/IV Fibronectin										+	
<b>CD249</b>	APA, gp160, EAP, ENPEP											+	+
<b>CD252</b>	TNFSF4, GP34, OX40L, TXGP1, CD134L, OX-40L, OX40L	CD134 (OX40)		+	+							+	

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<b>CD253</b>	TNFSF10, TL2, APO2L, TRAIL, Apo-2L	Apo2	+	+				+					
<b>CD254</b>	TRANCE, RANKL, TNFSF11, ODF, OPGL,sOdf, OPTB2, hRANKL2	RANK	+										
<b>CD256</b>	TNFSF13, APRIL, TALL2, TRDL-1, UNQ383/PRO715	TNFRSF17/BCMA, TACI	+		+			+	+				
<b>CD257</b>	TNFSF13b, BAFF, BLYS, TALL1, THANK, TNFSF20,ZTNF4	TNFRSF13B/TACI, TNFRSF17/BCMA, TNFRSF13C/BAFFR	+	+	+	+		+	+				
<b>CD258</b>	TNFSF14, LTg, TR2, HVEM, LIGHT	TNFRSF14/HVEM	+	+	+	-		+	+				
<b>CD261</b>	TNFRSF10a, APO2, DR4, MGC9365,TRAILR1	TRAIL, DAP3	+	+	-	+		+	+				
<b>CD262</b>	TNFRSF10b, KILLER/DR5,TRAILR2, TRICK2, TRICK2A, TRICK2B, TRICKB, ZTNFR9	TNFSF10, TRAIL	+	+	-	+		+	+				
<b>CD263</b>	TNFRSF10c, DCR1, LIT, TRAILR3,TRID	TRAIL	+	+		+		+	+				
<b>CD264</b>	TNFSF10d, DCR2,TRAILR4,TRUNDD	TRAIL	+	+	-	+		+	+				
<b>CD265</b>	TNFRSF11a, EOF, FEO, ODFR, OFE, PDB2, RANK, TRANCER	TNFSF11, RANKL, TRANCE, OPGL	+		+			+					
<b>CD266</b>	TNFRSF12A, FN14, TWEAKR, TWEAK-R	TWEAK											+
<b>CD267</b>	TNFRSF13B, CVID, TACI, FLJ39942, MGC39952, MGC133214, TNFRSF14B	TALL1, BLYS, BAFF	+	+	-			+	-				
<b>CD268</b>	TNFRSF13C, BAFFR, CD268, BAFF-R, MGC138235	BAFF	+	+	-	-		-	-				
<b>CD269</b>	TNFRSF17, BCM, BCMA	TNFSF13B, TALL-1, BAFF		+									
<b>CD270</b>	TNFRSF14, HVEM, HVEA, TR2, ATAR	CD258, CD272, CD160	+	+	+	+		+	+				
<b>CD271</b>	NGFR, Gp80-LNGFR, TNFRSF16, p75(NTR), p75NTR	NGF, BDNF, NT-3, NT-4			+								
<b>CD272</b>	BTLA1, FLJ16065, MGC129743, BTLA	B7H4	+	+	+	-		+	-				
<b>CD273</b>	B7DC, Btdc, PDL2, CD273, PD-L2, PDCD1L2, MGC142238,	PD2	+		+			+					

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	MGC142240, bA574F11.2, PDCD1LG2												
<b>CD274</b>	B7-H, B7H1, PDL1, PD-L1, PDCD1L1, PDCD1LG1, MGC142294, MGC142296, CD274	PD1	+	+	+	+		+	+				
<b>CD275</b>	B7H2, GL50, B7-H2, B7RP1, CD275, ICOSL, LICOS, B7RP-1, ICOS-L, KIAA0653, ICOSLG	ICOS	+	+	+			+					
<b>CD276</b>	B7H3, B7-H3, 4lg-B7-H3, CD276	ICOS			+			+					
<b>CD277</b>	BTF5, BT3.1, CD277, MGC141880, BTN3A1		+	+	+	+	+	+					
<b>CD278</b>	AILIM, CD278, MGC39850, ICOS	B7-H3	+										
<b>CD279</b>	PD1, CD279,SLEB2, hPD-1, hPD-L, PDCD1	PDL1	+	+									
<b>CD280</b>	CD280, UPARAP, CLEC13E, ENDO180, FLJ35911, KIAA0709, MRC2, KIAA0709	uPARAP				+		+					+
<b>CD281</b>	TIL, CD281, rsc786, KIAA0012, MGC104956, MGC126311, MGC126312,TIL. LPRS5, DKFZp54710610, DKFZp56410682,TLR1	Bacterial lipoprotein						+	+				
<b>CD282</b>	TIL4, CD282, TLR2	Peptidoglycan						+	+				
<b>CD283</b>	TLR3, TOLL-like receptor 3	dsRNA			+			-	-				
<b>CD284</b>	TOLL, CD284, hToll, ARMD10,TLR4	LPS			+			+	+			+	
<b>CD285</b>	TLR5, Toll-like receptor 5,SLEB1,SLE1, MELIOS, TIL3	Bacterial flagellin			+			+					+
<b>CD286</b>	CD286,TLR6, TOLL-like receptor 6	LPS			+			+					+
<b>CD288</b>	CD288,MGC119599,MGC119600,TL R8, TOLL_like receptor 8	CpGoligonucleotides, MyD88	+		+			+					
<b>CD289</b>	TLR9, TOLL-like receptor 9	CpGoligonucleotides		+	+								
<b>CD290</b>	TLR10, TOLL-like receptor 10	MyD88	+	+	+				+				
<b>CD292</b>	BIMPR1A, 10q23del,ACVRLK3,ALK3, SKR5	Members ofTGF-β superfamily						+					
<b>CDw293</b>	BMPRI1B, ALK-6,ALK6,	BMPs (members of the TGF-β superfamily)						+					

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<b>CD294</b>	CRTH2, PGRD2, G protein-coupled receptor 44 (GPR44), DL1R, DP2	Prostaglandin D2	+						+				
<b>CD295</b>	LEPR, OBR	Leptin	+	+	+	+	+	+	+	+		+	+
<b>CD296</b>	ART1, ADP-ribosyltransferase 1, RT6, ART2, MGC133217	Arginine residues in proteins	+										+
<b>CD297</b>	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 glycosylphosphatidylinositol-anchored to the erythrocyte membrane.						+				+	
<b>CD298</b>	ATP1B3, Na K ATPase β3 subunit, ATPB-3, FLJ29027	Part of the glycoprotein subunits of Na <sup>+</sup> /K <sup>+</sup> -ATPase.	+	+	+	+	+	+	+	+			
<b>CD299</b>	DCSIGN-related, L-SIGN, DCSIGNR, HP10347, DC-SIGN2, DC-SIGNR, MGC47866, MGC12996, CLEC4M	Carbohydrate ligands on the surface of microbes and endogenous cells										+	
<b>CD300a</b>	IRCI, IRC2, CLM-8, IRp60, IGSF12, CMRF35H, CMRF-35H, CMRF35-H, CMRF35H9, CMRF35-H9, IRC1/IRC2, CMRF-35-H9	Unknown	+	+	+			+					
<b>CD300c</b>	CMRF-35A, LIR, CLM-6, CMRF35, IGSF16, CMRF-35, CMRF35A, CMRF35A1, CMRF35-A1	Unknown	+	+	+			+					
<b>CD300e</b>	CMRF-35L1, CLM2, CLM-2, IREM2, PlgR2, IREM-2, PlgR-2, CD300LE, CMRF35-A5	Unknown			+			+					
<b>CD301</b>	MGL1, CLEC10A, CLECSF14, HML	Terminal galactose and N-acetylglucosamine units linked to serine or threonine			+			+					
<b>CD302</b>	DCL1	F-actin			+			+	+				
<b>CD303</b>	BDCA2, CLEC4C	TLR-9			+								
<b>CD304</b>	Neuropilin 1	VEGF			+								

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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-Cadherin, 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	DAPI2				+							
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					+						+

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<b>CD351</b>	FCAMR, Fc receptor, IgA, IgM, high affinity	IgA, IgM	+	+	-	-		+	-				
<b>CD352</b>	SLAMF6, Ly108, NTB-A	CD352, SH2D1A, SAPPTN6, PTN11	+	+	+	+		+	+				
<b>CD353</b>	SLAMF8, BLAME		-	+	-	-		+	-				
<b>CD354</b>	TREM1	TYROBP/DAP12	+	+	+	+		+	+				
<b>CD355</b>	CRTAM, Cytotoxic and regulatory T-cell molecule	CADM1	+	+	-	+		-	-				
<b>CD357</b>	TNFRSF18, Tumor necrosis factor receptor superfamily, member 18, GITR	TRAF1,TRAF2,TRAF3, SIVA1/SIVA, GITRL	+	+	+	+		+	-				
<b>CD358</b>	TNFRSF21, Tumor necrosis factor receptor superfamily, member 21, DR6	TRADD, N-APP	+	+	-	-		+	-				
<b>CD360</b>	IL21R	IL-21, common $\gamma$ subunit, JAK1	+	+	-	+		+	+				
<b>CD361</b>	EVI2B (ectopic viral integration site 2B)		+	+	-	+		+	+				
<b>CD362</b>	Syndecan-2	CD267 (TAC1),FGF2, GM-CSF, TGF $\beta$	+	+	-	-		+	+				
<b>CD363</b>	S1PR1, Sphingosine-1-phosphate receptor 1, EDG-1, S1P1	SIP	+	+	-	+		-	-			+	
<b>CD364</b>	PI16	MSMB	+	-		-		-	-				
<b>CD365</b>	TIM-1,T-cell immunoglobulin mucin receptor 1, TIMD-1, HAVCR1, KIM-1	Hepatitis A Virus, TIM-4	+										+
<b>CD366</b>	TIM-3,T-cell immunoglobulin mucin receptor 3, TIMD-3, HAVCR2, KIM-3	Galectin-9	+		+			+					
<b>CD367</b>	CLEC4A, CLECSF6; DCIR, Dendritic cell immunoreceptor, LLIR	HIV-1, HCV, endogenous and pathogen glycans		+	+			+	+				
<b>CD368</b>	CLEC4D, C-type lectin domain family 4, member D, CLEC6, MCL, MPCL	Glycans			+			+	+				
<b>CD369</b>	CLEC7A, Dectin-1, Dendritic cell-associated C-type lectin 1, BGR	$\beta$ -glucans		+	+			+	+			+	
<b>CD370</b>	CLEC9A, C-type lectin domain family 9 member A, DNRI	Complex of actin filaments and associated cytoskeletal proteins			+			+					
<b>CD371</b>	CLEC12A, DCAL-2, Dendritic cell-associated lectin 2, CLL-1, MICL				+	+		+	+				

## CONTACT

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