# BD Biosciences Human CD Marker Chart

*Reviewed by HLDA*[1]

bdbiosciences.com/**cdmarkers**

23-12399-01

| 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 αzb, 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 metal-loproteinases (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-αv, 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, galactosyl-galactosylxylosylprotein 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, ESNT, 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-sialyl-tranferase, 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, 55.7 | 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, PIR8, 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 immunoglobu-lin-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, CSAR, 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 | | + | + | | | | + | + | – | – | + | + |
| **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** |

**+ 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 αD | – | – | | | + | + | – | + | + | + | + |
| **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, H5IL5R3, 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, Ick | + | + | | + | | + | + | – | | | |
| **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** | KIR3DLIS1, 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** | 