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eBioscience Mouse CD Listings

Antigen Name	Alternate Names	Distribution	Function	eBioscience Clone
CD1d	CD1.1/1.2, Ly-38	leukocytes, intestinal epith	Ag presentation, mucosal immunity, w/ β2m, ligand for NKT cells	1B1
CD2	LFA-2, Ly-37, SRBC-R	lymphocytes, pre-B, erythrocytes, myeloid, DC	adhesion, T activation, CD48 receptor	RM2-5
CD3d	T3d	T, thymocyte subset, NKT	TCR subunit, TCR expression & signaling	
CD3e	T3e	T, thymocyte subset, NKT	TCR subunit, TCR expression & signaling	145-2C11
				17A2
				eBio500A2
CD3g	T3g	T, thymocyte subset, NKT	TCR subunit, TCR expression & signaling	
CD4	Ly-4, L3T4	thymocyte subset, T subset, DC	TCR coreceptor, thymic differentiation, T activation, MHC class II receptor	GK1.5
				RM4-5
				RM4-4
CD5	Ly-1	thymocytes, T, B subset (B1)	T activation, T-B interaction, CD72 receptor	53-7.3
CD6	T12	thymocytes, T, neurons, not on B	T differentiation & costimulation, CD166 receptor	
CD7		human early T marker, CD7KO has normal phenotype		
CD8a	Ly-2	thymocyte subset, T subset , DC subset, not fresh NK	TCR coreceptor, MHC class I receptor, T differentiation, homodimer or heterodimer w/ CD8b	53-6.7
CD8b	Ly-3	thymocyte subset, T subset, not fresh NK	TCR coreceptor, MHC class I receptor, T differentiation, heterodimer w/ CD8a	eBioH35-17.2 (H35-17.2)
				CT-CD8b
CD9	p24	myeloid, platelets, T^{act}, B subset, stromal cells, mesenchymal stem cells	cell adhesion, migration, T costimulation	eBioKMC8
CD10	CALLA, NEP, Mme	fibroblasts, BM stromal cells non-lympoid tissue	zinc-binding metalloproteinase, neutral endopeptidase ectoenzyme,	
CD11a	integrin αL, Ly-15, Itgal	T, B, NK, gran, mono, mac, DC, thymocytes	CD11a/CD18 (LFA-1) receptor for ICAM-1 and ICAM-2, adhesion, T costimulation	M17/4
CD11b	Mac-1, integrin αM, Itgam, CR3	myeloid, NK, T^{act}, B subset	CD11b/CD18 receptor for CD54 and CD102, adhesion to ECM, fibrinogen, & complement iC3b	M1/70
CD11c	p150, integrin αX, Itgax, CR4	DC, myeloid, NK, T subset	CD11c/CD18 receptor for fibrinogen & iC3b, adhesion	N418
CD13	Aminopeptidase N, Lap1	myeloid, endoth, DC	zinc-binding metalloproteinase, antigen processing	
CD14	LPS-R, Mo2	mac, gran^{low}	receptor for LPS/LBP, LPS recognition	Sa2-8
CD15	Lewis-X	transient in brain	fucosyl transferase (Fut4)	
CD16	FcγRIII, Ly-17, Fcgr3	NK, neutrophils, mast cells, mac	Fcγ low affinity receptor, phagocytosis, ADCC, NK activation	93
CD18	Integrin β2, Itgb2	leukocytes	w/ CD11a, b and c, adhesion	M18/2
CD19	B4	B, FDC, good B lineage marker, not plasma cells	w/ CD21 & CD81, BCR coreceptor, B activation/differentiation	eBio1D3 (1D3)
				MB19-1
CD20	Ly-44, B1, Ms4a2	B, T subset	B differentiation/activation	
CD21	CR2, CR1	B, DC	CD21/CD35 variant of CR2 gene, complement C3dR, w/ CD19 & CD81, BCR coreceptor	eBio4E3
				eBio8D9 (8D9)
CD22	Lyb-8, Siglec-2	B	adhesion, B-mono & B-T interactions, B activation, BM homing receptor for IgD+ B cells, CD75 counter-receptor	2D6
CD23	FcεRII, Ly-42, Fcer1a	B, mono, mac, gran, platelets, FDC, not B1 cells	CD19/CD21/CD81 receptor, low affinity IgER, signaling	B3B4
CD24a	HSA, Ly-52, Nectadrin	B, gran, mono, mac, T^{act}, erythrocytes, neurons	several isoforms, B differentiation & adhesion, T costim, CD62P receptor	30-F1
				M1/69
CD25	Ly-43, p55, IL2Rα	pre-B, pre-T, T^{act}, B^{act}, DC subset, mono, mac	low affinity IL-2 binding, w/ IL-2Rβ & γ forms IL-2 receptor high affinity, also soluble form	PC61.5
				eBio3C7
				eBio7D4
CD26	DPP4, THAM	thymocyte subset, T^{act}, B, NK, epith	dipeptidyl peptidase ectoenzyme, activation, adhesion	
CD27	T14, Tnfrsf7	medullary thymocytes, T, NK, B subset	CD70 receptor, T costimulation	LG.7F9
CD28	Tp44	T, thymocytes, NK	CD80 (B7-1) & B7-2 (CD86) receptor, T costimulation	37.51
CD29	Integrin β1, gpIIa, Itgb1	leukocytes, fibroblasts, endoth, epith	w/ CD49a-f (VLA-1-6), receptor for VCAM-1, MAdCAM-1 & ECM, VLAb, adhesion, embryonic development	eBioHMb1-1
				eBioKMI6
CD30	Ki-1, Tnfrsf8	T^{act}	CD153 receptor, lymphocyte proliferation, apoptosis, peripheral tolerance	mCD30.1
CD31	PECAM-1, pgIIa	leukocytes, endoth	multiple isoforms, CD38 receptor, signaling, platelet-endoth adhesion	390
CD32	FcγRII, Ly-17, Fcgr2b	mono, mac, gran, B, T^{act}, not NK	low affinity Fc receptor for aggregated Ig/ immune complexes, ADCC	93
CD33	Siglec-3, gp67	myeloid progenitors; gran	possible role in hematopoiesis, binds sialic-acid	
CD34	Mucosialin	hematopoietic precursors, capillary endoth, BM stroma, mast cells	CD62L receptor, adhesion	RAM34
CD35	Cr1, Cr2	B, gran^{act}, FDC	CD21 & CD35 alternative splice variants of Cr2 gene, binds C3b & C4b, adhesion, phagocytosis	eBio4E3
				eBio8D9 (8D9)
CD36	FAT, fatty acid translocase	platelets, adipocytes, mono, mac, endoth, erythrocyte, B cells	oxidized LDL receptor	No. 72-1
CD37		mRNA: lymphoid, myeloid	T-B interaction	
CD38	Cd38-rs1, T10	B, marginal zone B (high), T^{act}, thymocyte subset, subsets in yolk sac, in fetal liver, in BM	B^{act}, CD31 receptor, ectoenzyme, ADP-ribosyl cyclase/hydrolase	90
CD39	Entpd1	lymphocyte^{act}, microglia, endoth, Treg subset	ecto-nucleoside trisphosphate diphosphohydrolase	
CD40	gp39 receptor, Tnfrsf5	B, mono, mac, T subset, DC, endoth, thymic epith, induced on cardiac myocytes	CD154 receptor, T-B interaction, B costimulation, isotype-switching, & survival,	1C10
				HM40-3
CD41	gpIIb, Itga2b, CD41b	platelets, megakaryocytes	w/ CD61 forms GPIIb/IIIa, binds fibrinogen, fibronectin, vWF & thrombospondin	eBioMWReg30
CD42	Gp9, GPIX	platelets, megakaryocytes	platelet activation, aggregation	
CD43	Leukosialin, Ly-48, Spn, sialophorin	T, T^{act}, early B, B subset, platelets^{low}, not resting B, not DC	isoforms, signaling, CD54R, B survival, adhesion	eBioR2/60
CD44	Pgp-1, Ly-24, HERMES	broad, memory T, not platelets, or hepatocytes	binds hyaluronic acid, leukocyte adhesion/ homing, T activation, tumor metastasis	IM7
CD45	LCA, Ly-5, Ptprc	leukocytes, not mature erythrocytes	tyrosine phosphatase, leukocyte differentiation/activation, pan-leukocyte marker	30-F11
CD45.1	Ly5.1	Ly-5.2 strains: SJL, DA, STS/A, RIII	tyrosine phosphatase, signal transduction	A20
CD45.2	Ly5.2	Ly-5.1 strains: BALB/c, C3H, C57BL/6, DBA/1, DBA/2, AKR, A, 129	tyrosine phosphatase, signal transduction	104
CD45R/CT1		cytotoxic T^{act}		
CD45R	B220	B, NK progenitors, LAK, T^{act}, T cells with lpr/lpr mutant allele	tyrosine phosphatase	RA3-6B2
CD45RA			exon A isoform, tyrosine phosphatase	
CD45RB		T subset, B, mono, mac, DC	tyrosine phosphatase, signal transduction	C363.16A
CD45RC		T subset, B	tyrosine phosphatase, signal transduction	GL24
CD45RO	UCHL-1	T^{act}, B^{act}, DC subset	tyrosine phosphatase, signal transduction	
CD46	MCP, membrane cofactor protein	broad	complement regulation, role in fertilization	
CD47	IAP, Itgp, neurophilin	hematopoietic cells, epith, endoth, fibroblasts, platelets	w/ β3 integrins, adhesion, binds SIRP, thrombospondin receptor	miap301
CD48	Blast-1, BCM-1, Sgp-60	broad on lymphocytes, not fibroblasts	adhesion, T costimulation, CD2 and Ly-9 receptor	HM48-1
CD49a	VLA-1, Integrin α1, Itga1	T^{act}, endoth	adhesion, CD49a/CD29 binds collagen & laminin	
CD49b	VLA-2, Integrin α2, Itga2	platelets, T subset, megakaryocytes, NK cells	adhesion, CD49b/CD29 binds collagen & laminin	HMa2
				DX5
CD49c	VLA-3, Integrin α3, Itga3	B subset, T^{low}	CD49c/CD29 binds laminin, fibronectin, collagen	
CD49d	VLA-4, Integrin α4, Itga4	T, B, mono	CD49d/CD29 binds fibronectin, VCAM-1, w/ β7 forms LPAM-1 & binds to MAdCAM-1, homing receptor	R1-2
CD49e	VLA-5, Integrin α5, Itga5	thymocytes, T^{act} , splenic B cells	adhesion, CD49e/CD29 binds fibronectin	eBioHMa5-1
CD49f	VLA-6, Integrin α6, Itga6	memory T, thymocytes, platelets	adhesion, CD49f/CD29 binds laminin	GoH3
CD50	Icam5, Ticn, Telencephalin	brain, dopaminergic neurons	adhesion	
CD51	VitronectinR, Integrin α v, Itgav	platelets, megakaryocytes, endoth, osteoblasts, melanoma	adhesion, CD51/CD61 binds vitronectin, von Willebrand factor, fibrinogen & thrombospondin	RMV-7
CD52	CAMPATH-1, MB7, CLS1	mature lymphocytes, Treg subset		
CD53	OX-44	leukocytes, DC, osteoblasts, osteoclasts	signaling	
CD54	ICAM-1, Ly-47	endoth, mono, resting lymph (high on activation)	CD11a/CD18(LFA-1), CD11b/CD18(Mac-1) & CD43 receptor, adhesion, T costimulation	YN1/1.7.4
				eBioKAT-1
CD55	Decay Accelerating Factor	broad, induced in uterus by estrogen	similar to Crry, protection from autologous complement attack	
CD56	NCAM	neural tissue, multiple isoforms	adhesion, neuron development, skeletal myogenesis	
CD57	B3gat1, HNK-1	GlucuronsyltransferaseP	cell adhesion molecule; memory	
CD58 (H)	LFA-3	not defined in mouse		
CD59	Protectin, MAC-inhibitor	broad	binds complement C8 & C9, blocks membrane attack complex assembly	
CD60 (H)		not defined in mouse		
CD61	GPIIIa, Integrin β3, Itgb3	platelets, megakaryocytes, mac, endoth	CD41/CD61 or CD51/CD61 complexes adhere to ECM	2C9.G3
CD62E	E-selectin, ELAM-1, Sele 97	endoth	sialyl-Lewis x receptor, leukocyte rolling & migration, tumor metastasis	
CD62L	L-selectin, LECAM-1, sell	B, T, mono, gran, NK, thymocytes	CD34, GlyCAM, & MAdCAM-1 receptor, lymphocyte homing, leukocyte tethering & rolling	MEL-14
CD62P	P-selectin, Selp	platelets^{act}, endoth	CD162 & sialyl LewisX receptor, adhesion, neutrophil rolling, platelet-neutrophil, binds to CD24	
CD63	MLA1	platelets^{act}, mono, mac	activated platelets marker, lysosomal membrane protein, translocates to surface upon activation, melanoma associated antigen	
CD64	FcγRI	mono, mac, DC, gran^{act}	high affinity IgG receptor, phagocytosis, trypsin-sensitive, ADCC	
CD65 (H)		not defined in mouse		
CD66a	Ceacam1, C-Cam	colon, liver, hematopoietic tissues	cell-cell interaction, hepatitis virus receptor	
CD68	Macrosialin, gp110	predominantly intracellular, tissue mac, DC^{low}	lysosomal associated protein	
CD69	Activation Inducer Molecule, VEA	T^{act}, B^{act}, NK^{act}, gran^{act}, thymocytes, platelets	early activation marker, thymocyte development	H1.2F3
CD70	Ki-24, Tnfsf7	B^{act}, T^{act}, cardiac myocytes	CD27 receptor, T & B costimulation	FR70
CD71	T9, Trfr	proliferating cells, reticulocytes, erythroid precursors	transferrin receptor, iron uptake, cell activation	R17217
CD72	Lyb-2	B, FDC, T subset, polymorphic extracellular portion	CD5 & CD100 receptor, B costimulation	
CD73	Nt5e	Treg, myeloid BM, CD4+ T cells	ecto-5'-nucleotidase, T costimulation, adhesion	eBioTY/11.8 (TY/11.8)
CD74	Ii, Ia-invariant chain	B, mac, mono	MHC class II traffic & function, antigen presentation	
CD75	st6Gal I	BM homing of recirculating B cells, CD22 counter-receptor	putative role in tumor progression	
CD77 (H)		not defined in mouse		
CD79a	Iga, mb-1, Ly-54	B	BCR subunit, BCR expression & signaling	
CD79b	Igb, B29	B	BCR subunit, BCR expression & signaling	
CD80	B7, B7-1, Ly-53	B^{act}, T^{act}, mono, mac, DC, pancreatic β cells	CD28 & CD152 receptor, costimulation, T-B interaction	16-10A1
CD81	TAPA-1	T (double POS), B, NK, thymocytes, DC, endoth, fibroblast, melanomas, neuroblastomas, mac	w/ CD19 & CD21, signaling, T costimulation	Eat-2
CD82	KAI1, C33	T^{act}, mRNA: spleen, kidney	inhibits tumor cell mobility	
CD83	H315	DC, T^{act}, mRNA: spleen & brain	regulation of T response, binds to a ligand on B cells	Michel17
CD84	SLAMF5, GR6	B, mac, mRNA: hematopoietic tissue	homophilic adhesion	
CD85K	Gp49b, Lilrb4	mast cells	inflammation	
CD86	B70, B7-2, Ly-58	mono, B^{act}, T^{act}, DC	CD28/CD152 receptor, T costimulation, T-B interaction	PO3.1
				GL1
CD87	UPA-R, Plaur	muPAR1 luminal epith of gastric mucosa	PAR2 secreted uPA binding protein	
CD88	C5aR, C5r1	gran, neurons, astrocytes, microglia	C5a receptor, neurodegeneration	
CD89	FcαR, IgA receptor	mono, mac, neutrophils, B subset, T subset	phagocytosis, degranulation,	
CD90	Thy-1	thymocytes, T, hematopoietic subset, neurons	hematopoietic stem cell & neuron differentiation, T activation	G7
CD90.1	Thy-1.1	thy1a (thy1.1) strains: AKR & RF & PL		HIS51
CD90.2	Thy-1.2	thy1b (thy1.2) all other strains		53-2.1
				30-H12
CD91	lrp1, A2mr	mono, mac, neurons, liver, fibroblasts	receptor for a-2- macroglobulin, LDL, lipoprotein metabolism	
CD92 (H)		not defined in mouse		
CD93	AA4.1 antigen, C1qRp, early B lineage marker, Ly68	progenitor marker for early B cells, endo, megakaryoblasts, platelets	phagocytic complement C1q receptor	AA4.1
CD94	KP43, klrd1	NK, T subset	w/ NKG2, inhibits NK function	18d3

Antigen Name	Alternate Names	Distribution	Function	eBioscience Clone
CD95	Apo-1, Fas	thymocytes, lymphocytes^{act} , fibroblast, mono, neutrophil	CD95L(CD178) receptor, apoptosis induction, immune system regulation,	15A7
CD96	TACTILE, T cell Activation Increased Late Expression	mRNA: spleen, mammary gland	adhesion of activated T & NK	
CD97	TM7LN1 TM7S	lymphoid, myeloid	CD55 receptor	
CD98	4F2, Ly-10	thymocytes, lymphocytes, mono, BM	cell activation, calcium flux	RL388
CD99	Pilr-1, D4	endoth	neutrophil migration	
CD100	Sema4d, semaphorinH	mRNA: lymphoid & nervous tissues	CD72 receptor, role in immune & nervous systems	BMA-12
CD101	IgSF3	meyloid, DC, T subset, Treg subset	role in susceptibility to type I diabetes	
CD102	ICAM-2, Ly-60	lymphocytes, mono, platelets, endoth	binds CD11a/CD18 (LFA-1), costimulation	
CD103	HML-1, Integrin αIEL, Itgae	intraepithelial lymphocytes, BM mast, lymphocytes^{act}, Treg subset	w/ integrin β7, binds E-cadherin, lymphocyte homing	2E7
CD104	β4 integrin, Itgb4	epith, endoth, immature thymocytes, Schwann cells, tumor cells, keratinocytes	w/ CD49f, cell adhesion/migration, differentiation, tumor metastasis,	
CD105	Endoglin, Eng	endoth, BM cell subset, mac^{act}	ligand for TGF-β, adhesion, embryonic angiogenesis	MJ7/18
CD106	VCAM-1	endoth^{act}, FDC, BM myeloid	CD49d/CD29 receptor, adhesion/migration, costimulation, binds LPAM-1	429
CD107a	LAMP-1	platelets^{act}, T^{act}, endoth^{act}	adhesion, metastasis	eBio1D4B
CD107b	LAMP-2	platelets^{act}, T^{act}, endoth^{act}	adhesion, metastasis	eBioABL-93
CD108	Sema7a	mRNA: nervous system(high), immune system		
CD109	Gov platelet alloantigen, GARP			
CD110	TPO-R, c-mpl	megakaryocytes, platelets	thrombopoietin receptor, megakaryocyte differentiation	
CD111	PRR1, Nectin-1, Pvrl	fibroblasts, epithelium, neurons	polio virus receptor-related protein1, entry of herpes simplex virus	
CD112	PRR2, Pvs, Nectin-2	mRNA: brain, spinal cord, spleen, kidney, heart, liver	adhesion, not a receptor for poliovirus	
CD113	PVRL3, Nectin3	broad, epith	adhesion molecule, interacts with afadin	
CD114	G-CSFR, Csfgr, Csf3r	progenitor & mature neutrophils, endoth, placenta, some myeloid leukemia	myeloid proliferation & differentiation	
CD115	M-CSFR, c-fms, Csf1r	monocytic progenitors, osteoclasts, mac	M-CSF receptor, monocytic lineage proliferation/ differentiation, role in differentiation of osteoclasts	AFS98
CD116	GM-Csf2ra	mono, gran, DC, endoth	low affinity GM-CSF receptor, proliferation, differentiation	
CD117	c-kit, Steel factor	hematopoietic stem & progenitors, neural crest-derived melanocytes, primordial germ cells, mast cells	Stem Cell Factor receptor, activation of mast cells	2B8
				ACK2
CD118	LIFR	placenta, liver, kidney, heart, lung, brain epith	membrane-bound involved in signal transduction, soluble form inhibits LIF activity	
CD119	IFNγR, ifgr1, Ifngr	mac, mono, B, T, NK, neutrophils, endoth	high affinity Interferon-γ receptor	2E2
				MOB-47
CD120a	TNFR1, p55	broad	TNF receptor, (α & β), apoptosis	55R-286
				55R-170
CD120b	TNFR2, p75	broad	TNF receptor, (α & β), apoptosis	TR75-54
				TR75-32
CD121a	IL-1R type I	broad^{low}	Type I IL-1R,	
CD121b	IL-1R, type II	B, mac, mono, T subset (Th2), epidermis,	Type II IL-1R, , a decoy receptor	
CD122	IL-2Rβ p70	NK, T, B, mono, Treg	IL-2R & IL-15R chain, signaling, w/ CD25 & CD132 form high affinity IL-2R, lymphocyte development	5H4
				TM-b1
CD123	IL-3Rα	lymphocyte subset, basophils, hematopoietic progenitors, mac, pDC, megakaryocytes	IL-3Rα chain, low affinity binding to IL-3, w/ CDw131 form high affinity IL3 binding	5B11
CD124	IL-4Rα	lymphocytes^{low}, mono, hematopoietic precursors, fibroblast, epith	IL-4R chain, w/ CD132 or IL-13Rα chain, T growth & differentiation, soluble form	
CD125	IL-5Rα	eosinophils, basophils	IL-15Rα chain, w/ CDw131 for low affinity IL-5 binding, w/ β subunit for high affinity IL-15 binding	
CD126	IL-6Rα	B^{act}, plasma cells, most leukocytes^{low}, fibroblasts	IL-6Rα subunit, low affinity IL-6 binding, w/ CD130 for high affinity IL-6 binding, soluble form	D7715A7
CD127	IL-7Rα	pro-B, T	IL-7Rα chain, w/ CD132 for high affinity IL-7 binding, T & B development & activation	A7R34
CD128	see CD181 and CD182			
CD130	IL-6Rβ, gp130	broad in adult & embryonic cells	common β chain of IL-6R, IL-11R, LIFR, OSMR	KGP130
CD131	IL-3R, AIC2B/A, common β, Csf2rb1, Csf2rb2	mono, gran, early B	2 genes in mouse, signaling, w/ α subunits of IL-3, IL-5, GM-CSF receptors	
CD132	IL-2R Common β	T, B, NK, mono, gran, DC	subunit of IL-2, IL-4, IL-7, IL-13, & IL-15R, signaling, mutation: X-linked SCID	
CD133	Prominin-1	primitive cells like hematopoietic progenitors, neural, retina, epith	unknown	13A4
CD134	OX-40, Ly-70, Txgp1	T^{act}	OX-40L receptor, apoptosis, T activation/ differentiation	OX-86
CD135	Flt3/Flk2, EMS-like tyr kinase 3	hematopoietic progenitors: myeloid & primitive B progenitors, fetal liver, adult BM	binds FLT3 ligand, myeloid & lymphoid development, expands hematopoietic progenitors & DC	A2F10
CD136	STK, Mst1r, RON	hematopoietic cells	macrophage stimulatory 1 receptor	
CD137	4-1BB, Tnfrsf9	T^{act}	T costimulation, binds to 4-1BBL, fibronectin, vitronectin, laminin, collagen VI	17B5
CD138	syndecan-1, Sdc1	epith, plasma cells, pre-B, neurons	receptor for ECM, B differentiation	
CD139 (H)		not defined in mouse		
CD140a	PDGF receptor α	fibroblasts, smooth muscle, glial cells, chondrocytes	PDGFRaa binds PDGF AA, AB, BB, PDGFRab binds AB, BB, PDGFRbb binds PDGFBB, embryonic development, signaling	APA5
CD140b	PDGF receptor β	fibroblasts, smooth muscle, glial cells, chondrocytes	see CD140a for ligands, signaling	APB5
CD141	Thrombomodulin, Thbd	mono, neutrophils, endoth, smooth muscle	initiation of protein C anticoagulant pathway	
CD142	Tissue Factor, factorIII, F3	embryonic development	binds clotting factor VIIa,	
CD143	ACE	endoth	peptidyl-peptidase, angiotensin converting enzyme	
CD144	Cadherin5, VECadherin	endoth	adhesion, intercellular interaction	eBioBV13
				eBioBV14
CD146	MUC18, S-endo, mcom	embryonic tissue, mammary tumors	cell adhesion during development	
CD147	Neurothelin, basigin, Bsg	leukocytes^{act}, erythrocytes, platelets, endoth	adhesion, blood-brain barrier	RL73
CD148	HPTP-eta, M4, M56	mRNA: broad, high in brain, kidney	tyrosine phosphatase R Type III	
CD150	SLAM, IPO-3	T, B, maintained on Th1	costimulation, proliferation, Ig production	9D1
CD151	PETA-3, SFA-1	endoth, megakaryocytes, platelets	adhesion, signaling	
CD152	CTLA-4, Ly-56	T^{act}	CD80, CD86 receptor, negative T stimulation	9H10
				UC10-4B9
CD153	CD30L, Tnfsf8	T^{act}, mac^{act}, neutrophil, B, induced on cardiac myocyte	CD30 receptor, T costimulation	RM153
CD154	CD40L, gp39, Ly-62, Tnfsf5	transiently on T^{act}, B subset (intracellular), platelets, mac, DC	CD40 receptor, B & DC costimulation, T activation	MR1
CD155	PVR	mono, mac	Polio virus receptor	
CD156a	ADAM8, MS2	neutrophils, mono	metalloprotease, leukocyte extravasation	
CD156b	TACE/ ADAM 17	broad	zinc metalloprotease, TNF converting enzyme	
CD156c	ADAM10, kuz, kuzbanian, Madm	neural precursors, fibroblasts	proteolytic cleavage of cell-surface molecules including Notch, TNF-α, APP & ephrin-A2	polyclonal
CD157	BST-1, Ly-65, Bp3	gran, mono, early B, T subset, BM stroma	ADP-ribosyl-cyclic ADP-ribose hydrolase, pre-B growth	
CD158	KIR, 3dl1	mRNA: NK		
CD159a	NKG2A, Klrc1	NK & NKT cells	w/ CD94, Qa-1(b) receptor, inhibitory signaling	20d5
CD159c	NKG2C	NK & NKT cells	w/ CD94, Qa-1(b) receptor, stimulatory signaling	20d5
CD160	BY55	NK subset, T subset	costimulation	CNX46
CD161c	NKR-P1c, Ly-55, NK1.1	NK, T subset of NK1.1 strains	NK cell-mediated cytotoxicity	PK136
CD162	PSGL-1, Slp1	myeloid cells, lymphocyte subset	CD62P & CD62L receptor, adhesion, leukocyte rolling	
CD162R (H)	PEN-5	not defined in mouse		
CD163		peritoneal mac		
CD164	MGC-24, A115, A24	mRNA: broad various adult & embryonic tissues	hematopoietic progenitor-stroma interaction	
CD165	AD2, gp37	not defined in mouse		
CD166	ALCAM	neurons, T^{act}, mono, epith, fibroblasts, B^{act}	CD6 receptor, adhesion, T development, T-B interaction, role in nervous system, pluripotent stem cell marker	eBioALC48
CD167a	DDR1	epith, myoblasts, brain, early marker neuroectoderma	discoidin domain receptor, tyrosine kinase, adhesion	
CD168	RHAMM, Hmmr	broad	hyaluronan-mediated motility receptor, adhesion, cell locomotion, tumor metastasis (intracellular in human breast cancer)	
CD169	sialoadhesin, Sn, Siglec-1	tissue mac subset	adhesion, cell-cell & cell-matrix interactions, binds α2,3-sialylated ligands CD43, CD227, SRBC-R	
CD170	Siglec-5, CD33-like2, Siglec-F	mac subset, neutrophils	adhesion	
CD171	L1, cell adhesion molecule	CNS, PNS, glial cells, mono, T subset, B, DC, lymph node reticular fibroblasts, some epith	homotypic adhesion, T co-stimulation, integrin binding, KO has neuropathologies similar to CRASH disorder	
CD172a	SIRPα, Ptpns1	mono, mac, DC, T subset, stem cells	adhesion, w/ CD47, SHP substrate-1	
CD172b	SIRPβ	mac and other hematopoietic lineages	engagement of SIRPβ promotes phagocytosis in mac	
CD172g (H)	SIRPγ	not defined in mouse		
CD173-CD175 (H)		not defined in mouse		
CD176	Tfn, HP			
CD177	NB1, Pdp3	neutrophil subset (surface & intracellular)		
CD178	Fas Ligand, CD95L,TNFSF6	T^{act}, testis	apoptosis of CD95+ cells, immune privilege, soluble form in serum, gld mutation nonfunctional FasL	MFL3
				MFL4
CD179a	V pre B	pro- & early pre-B	B differentiation, signaling, pre-BCR w/ IgM/CD79α/β	
CD179b	Lambda 5	pro- & early pre-B	B differentiation, signaling, pre-BCR w/ IgM/CD79α/β	
CD180	RP105, Ly-78	B, mono, DC	B recognition & signaling of LPS, w/ MD-1, regulation of B cell growth and death	RP/14
CD181	CXCR1, IL8Rα	neutrophils, basophils, NK, T subset, mono	binding of IL-8 induces chemotaxis of neutrophils	
CD182	CXCR2, IL8Rβ	neutrophils, basophils, NK, T subset, mono	binding of IL-8 induces chemotaxis of neutrophils, also binds GRO and NAP-2	
CD183	CXCR3, Cmkar3, gpr9	T^{act} (Th1), NK, eosinophils, GM-CSF activated hematopoietic progenitors	6Ckine, IP-10 , Mig & I-TAC receptor, T recruitment to inflammatory sites,Th1 response, allograft destruction	
CD184	CXCR4, Cmkar4, Fusin/ LESTR, sdf1r, HUMSTR	T subset, B, DC, mono, endoth	SDF-1 receptor, embryogenesis, lymphocyte migration, B development, (human: 4 HIV coreceptor)	2B11
CD185	CXCR5, BLR1	spleen, resting B, T, skin-derived DC	binds BLC, involved in B-cell migration into B-cell follicles of spleen and Peyer's patches	
CD186	CXCR6, BONZO	memory T	chemokine receptor for CXCL16, also a coreceptor by SIVs and by strains of HIV-2 and m-tropic HIV-1	
CD191	CCR1, MIP-1αR, RANTES-R	neutrophils, mono, lymph, eosinophils & osteoclasts	receptor for C-C type chemokines MIP-1α, RANTES, MIP-1β, MCP-1	
CD192	CCR2, MIP-1αR	T subset, mono, B	receptor for the MCP-1, MCP-3 & MCP-4 chemokines	
CD193	CCR3, MIP-1αRL2	skeletal muscle & low amounts in leukocytes, T subset	receptor for C-C type chemokines eotaxin, MCP-3, MCP-4 and RANTES	
CD195	CCR5, Cmkbr5	T subset, NK, mono^{low}	MIP-1α, MIP-1β & RANTES receptor, (human: R5 HIV-1 coreceptor)	HM-CCR5 (7A4)
CD196	CCR6, KY411	mainly B, T and DC subset	receptor for C-C type chemokines MIP-3α/ LARC	
CD197	CCR7, Cmkbr7	T, DC subset	6Ckine & MIP-2β receptor, CCL19 & CCL21 receptor	4B12
CD198	CCR8, TER1	mono, mac, neutrophils, T subset	receptor for TCA-3/I-309	
CD199	CCR9, CMKBR10	high in thymus, immature and mature T	receptor for chemokine SCYA25/TECK, role in T development	eBioCW-1.2 (CW-1.2)
CD200	OX-2	thymocytes, B, T^{act}, DC, endoth, neurons	T costimulation, regulation of oxidoreductase pathway	
CD201	Procr, EPCR	endoth & stem cell subset	activated protein C receptor	eBio1560 (1560)
				mRCR-16
CD202b	Tie2, Tek	stem cells, endoth from early development	angiogenesis, Angiopoietin-1 receptor	TEK4
CD203c	ENpp1, PC-1, TWY	antibody secreting B, basophils, mast cells, megakaryocytes, glioma	plasma cell alloantigen, ectoenzyme, binding/clearance of extracellular nucleotides	
CD204	Macrophage scavenger-R, Scvr	mac	endocytosis of macromolecules	
CD205	DEC-205, Ly75	DC, thymic epith, B^{low}, BM stromal, pulmonary epith, brain capillaries	antigen up-take/presentation, immune inhibition	
CD206	macrophage mannose-R, Mrc1	mac, mono, DC subset	phagocytosis/pinocytosis mannose containing molecules	
CD207	Langerin	Langerhans cells	Ag capture & endocytic receptor, w/ Birbeck granules	eBioRMUL.2

Antigen Name	Alternate Names	Distribution	Function	eBioscience Clone
				eBioL31
CD208	DC-LAMP, Lamp3	DC^{act}, interdigitating DC		
CD209a	DC-SIGN, CIRE	DC subset	ICAM-3 receptor, HIV-1 binding protein, T-DC interaction	5H10
				LWC06
CD209b	SIGN-R1	Macs (splenic, LN)		eBio22D1
CD210	IL-10R	Th1, B, NK, mono, mast cells, mac	IL-10 receptor, signaling, related to IFN receptors	
CD212	IL-12Rβ1	T^{act}, NK^{act}	high affinity binding to IL-12, w/ IL-12 receptor β2, signaling, T & NK response to IL-12	
CD213a1	IL-13Rα1, NR4	mono, NK, fibroblasts, endoth	binds IL-13 low affinity, w/ CD124	
CD213a2	IL-13Rα2	B, mono	binds IL-13 high affinity	
CD217	IL-17R	broad	IL-17 receptor	
CD218a	IL-18Rα, IL1Rrp	T, NK & DCs	IL-18 binding leads to the activation of NF-κB	
CD218b	IL-18Rβ, IL18Rap	T, NK and DCs	forms heterodimeric receptor with IL-18Rα to enhance IL-18 binding	
CD220	InsulinR, Insr	broad	Insulin receptor, regulation of metabolism	
CD221	IGF-1R	broad	binds IGF high affinity, prolif/differentiation	
CD222	IGF-II R, M6P/IGF2R	broad, 90-95% intracellular	cation-independent mannose 6-phosphate receptor, TGFβ-LAP, plasminogen & proliferin receptor	
CD223	LAG-3	T^{act}, NK^{act}	MHC class II ligand, role in natural killing	eBioC9B7W
CD224	GGT, Ggtp	yolk sac, protoplasmic astrocytes, endoth, embryonic stem cell lines	γ-glutamyl transpeptidase	
CD225	Ifitm1, fragilis2, Mil2	primordial germ cells	adhesion, differentiation, interferon-induced transmembrane protein 1	
CD226	DNAM-1, PTA-1, TLiSA1	Th1, CD8 T, platelets	platelet activation, T differentiation, costimulation, Th1 function	
CD227	Muc1, EMA	lymphocytes, tumors, epith, increased in pregnancy	epithelial membrane antigen, organogensis	
CD228	Melanotransferrin, Mfi2	mRNA: cartilage(high), testis(moderate)		
CD229	Ly-9, Lgp100	thymocytes, T, B, BM subset, not erythrocytes	adhesion	
CD230	Prion protein, PrnP	Scrapie-associated fibril protein		
CD231	TALLA-1, A15	mRNA: brain, colon, muscle, heart, kidney, spleen	T cell acute lymphoblastic leukemia marker, neuronal function	
CD232	VESP-R, PlexinC1	broad	viral-encoded semaphorin protein receptor	
CD233	Band3, SLC4A1	erythrocytes, mRNA: epith, other tissues	anion pump, CO2 transport, linking membrane to cytoskeleton	
CD234	Duffy, Dfy, DARC	mRNA: spleen, BM, liver, brain, not erythrocytes	Duffy blood group antigen chemokine receptor	
CD235a	Glycophorin A, Gypa	erythrocytes	one gene only in mouse for Glycophorin A	
CD236R	Glycophorin C	erythrocytes		
CD238	Kell blood group, Kel	erythrocytes, mRNA: spleen		
CD239	B-CAM, Lu	mRNA: broad, erythrocytes	Lutheran blood group, B adhesion to laminin	
CD240CE	Rhesus 30CE	erythrocytes	Rh30CE & RH30D is one gene in the mouse: RH30	
CD241	Rhesus 50, RhAg	erythrocytes	Rh antigens w/ CD47 & LW	
CD242	ICAM-4, LW blood group	erythrocytes	adhesion, Landsteiner-Wiener blood group	
CD243	MDR-1, Abcb1, Pgp	T subset, stem cells, small intestine, kidney	ion pump, cytokine export, CTL function	
CD244	2B4, Ly-90, Nmrk	NK, NKT, LAK	NK activation, CD48 receptor, MHC-unrestricted killing	eBio244F4
CD246	ALK, Ki-1	mRNA: brain, not normal lymphocytes	anaplastic lymphoma kinase, brain development	
CD247	TCR ζ, cd3z	T, NK subset	TCR subunit, signaling, low level impaired immune function	
CD248	TEM1, Endosialin	endoth tissue	may function in tumor progression and angiogenesis	
CD249 (H)	Aminopeptidase A	not defined in mouse		
CD252	OX-40 Ligand, gp34	B^{act}, cardiac myocytes	T-B interaction, T costimulation,	RM134L
CD253	TRAIL, APO-2L	NK^{act}, liver NK	apoptosis	N2B2
CD254	TRANCE, RANKL, OPGL	T^{act}, osteoblasts	T-DC communication, osteoclast differentiation, T-B cell interaction,	IK22/5
CD256	APRIL, TALL-2	T^{act}, mono, mac	binds TACI and BCMA, stimulates T & B prolif	polyclonal
CD257	BLyS, BAFF, TALL-1	mono	binds TACI, BCMA & BAFFR to induce B proliferation	polyclonal
CD258	LIGHT, HVEM-L	T^{act}, immature DC	binds LTBR to induce T proliferation, also binds HVEM	
CD261 (H)	TRAIL-R1	not defined in mouse		
CD262	TRAIL-R2, DR5, Apo2, TRICK2, KILLER	broad	ligand for TRAIL, activates NF-κB & mediates apoptosis, p53-dependent expression	MD5-1
CD263 (H)	TRAIL-R3	not defined in mouse		polyclonal
CD264 (H)	TRAIL-R4	not defined in mouse		polyclonal
CD265	RANK, TRANCE-R, ODFR	broad expression	binding mediates osteoclastogenesis & T-DC interactions	R12-31
CD266	TWEAK Receptor, Fn14	mRNA in liver regeneration, Colon 26 cell line	cell migration, proliferation, angiogenesis, activates NF-κB pathway	ITEM-2
				ITEM-4
CD267	TACI, TNFRSF13b	T^{act} and B	binding of APRIL or BLyS stimulates B and T function	eBio8F10-3
CD268	BAFFR, Bcmd	B, T^{act} subset	BLyS binding promotes survival of mature B & B response	eBio7H22-E16
CD269	BCMA, TNFRSF13B	mature B (membrane and perinuclear)	binds APRIL, BAFF, survival and proliferation	
CD271	NGFR, TNFRSF16, p75 (NTR), Bex3, Ngfrap1	neurons, mesenchymal stem cells	binds NGF, BDNF, NT-3 and NT-4, tumor supressor mediate cell survival and death	eBio2E3 (2E3)
CD272	BTLA, B & T Lymphocyte Associated	T, B , BM, splenic macs, BM derived DC	binds HVEM, negative regulation	6F7 (blocking)
				3F9.D12
				6H6
				6G3
				8F4 (non-blocking)
CD273	B7DC, PD-L2, PDCD1L2	DC subset, mono, mac	binds PD-1, co-stimulation or supression of T cell proliferation	TY25
				122
CD274	B7-H1, PD-L1, PDCD1LG1	leukocytes, decrease in mature thymic T cells, B, NK, DC	binds PD-1, proliferation and cytokine production	MIH5
				1-111A
CD275	B7-H2, GL50, ICOS-L, B7h, B7RP-1	APC, B, DC, mac	lymphocyte costimulation, receptor for ICOS	HK5.3
CD276	B7-H3, B7RP-2	in vitro cultured DC and mono, APC, developing bone	negative regulator of T cell activation	M3.2D7
CD277 (H)	BT3.1	not defined in mouse		
CD278	ICOS, Inducible T cell COStimulator , Ly115	T^{act}, Th2	T costimulation, B7-H2 receptor, cytokine production	7E.17G9
				C398.4A
				15F9
CD279	PD-1, programmed death-1	T^{act}, B^{act}	negatively regulates lymphocytes, T cell development	J43
				RMP1-14
				RMP1-30
CD280	ENDO180, UPARAP, MRC2	chondrocytes	binds uPAR, mannose receptor, collagen matrix remodeling & endocytic recycling	
CD281	TLR1	low levels in leukocytes, mac	innate immunity, w/ TLR2	eBioTR23
				eBioLD5
CD282	TLR2	myeloid lineage: mac & DC in spleen	response to bacterial lipoproteins	6C2
				T2.5
				mT2.7
				polyclonal
CD283	TLR3	DC subset, mac, fibroblasts, induced by LPS	binds dsRNA, activation of NK-κB	T3.7C3
				polyclonal
CD284	TLR4, Ly87, Rasl2-8	thioglycolate-elicited peritoneal mac	binds LPS, innate immunity	MTS510 (TLR4/ MD-2)
				UT41
				UT12 (TLR4/MD-2) - Activating
				UT18 (TLR4/MD-2) - Activating
				polyclonal
CD289	TLR9	DC subset (intracellular)	binds CpG-DNA	m9.D6
				polyclonal
CD292	BMPR1A, ALK3	bone progenitor, broad	binds BMP 2 & 4, bone development, germ layer specification	
CD293	BMPR1B, ALK6	bone progenitor, developing retina	binds BMP, bone development, neurogenesis	
CD294	CRTH2, GPR44	Th2, eosinophils, basophils	binds prostaglandin D2, chemotaxis	
CD295	LeptinR, LEPR	broad	adipose metabolism, may be involved in immune dysfunction in obesity	
CD296	ART1, RT6, ART2	heart and skeletal muscle, peripheral T, NK subset	GPI linked protein modifies integrin during differentiation	
CD297	ART4, dombrock blood group	heart, lung, liver, and spleen, erythroid, mono^{act}		
CD298	Na+/K+-ATPase β3 subunit, ATP1B3	broad	transporter	
CD299 (H)	DC-SIGN-related	not defined in mouse		
CD300	Clm8; LMIR1; MMAC8; Pigr4; MAIR-I; mcpir1; MAIR-Ia; B230315M08Rik	myeloid cells	receptors of the IgSF involved in immune regulation	
CD301 (H)		not defined in mouse		
CD302	DCL-1	mac	cell adhesion and migration	
CD303	BDCA-2, CLECSF11, DLEC, HECL	not defined in mouse		
CD304	BDCA4, neuropilin 1, Nrp, NP-1	DC, neurons, endoth & tumor cells, CD4+/CD25+ Treg	binds VEGF165, semaphorins, coreceptor w/ plexin, axonal guidance, angiogenesis, cell survival, migration	
CD305	LAIR1	broad, NK, B, T, mono	inhibitory receptor on NK and T cells	
CD306-307 (H)		not defined in mouse		
CD309	VEGFR2, Flk-1, KDR	endoth, angiogenic precursor cells; hemangioblast	binds VEGF, regulates adhesion and cell signaling	Avas12a1
CD312 (H)	EMR2	not defined in mouse		
CD314	NKG2D, KLRK1	NK, CD8+ activated, not CD4+ in the periphery, mac^{act}	binds MHC class I, Rae1 & ULBP4, cytolysis and cytokine production; costimulatory	CX5 (blocking)
				MI6 (blocking)
				C7 (blocking)
				A10 (activating)
CD315	CD9P1, SMAP6, FPRP, PTGFRN	B subset, mono^{act}	w/ CD81 and CD9	
CD316	EWI2, PGRL, KASP	B, T, low on NK cells	w/ CD81 & CD9; involved in cell migration	
CD317	BST2, PDCA-1	plasmacytoid DC	trafficking of cytokines	eBio129c
				eBio927
CD318	CDCP1, CUB domain containing protein 1			
CD319	CRACC, SLAMF7	predicted: T, B and DC subset, NK, upregulated in DC	regulate T and NK cells	
CD320	VLDL, Ng29			
CD321	JAM1, F11 receptor, KAR	epith and endoth, platelets	tight junction, binds reovirus & LFA1, platelet receptor	
CD322	JAM2, VE-JAM	HEV and other endothelia	mediates transendothelial migration of lymphocytes	
CD324	E-Cadherin, Uvomorulin	non-neural epith	binding to integrin αE/β7 & homotypic interactions mediate cell adhesion	
CD325	N-Cadherin, Cadherin-2	brain, skeletal & cardiac muscle	adhesion, may be involved in neuronal recognition mechanism	
CD326	Ep-CAM, EGP, Ly-74	may function as growth factor receptor or adhesion molecule		G8.8
CD327 (H)	siglec6	not defined in mouse		
CD328 (H)	siglec7	not defined in mouse		
CD329 (H)	siglec9, siglecl1	not defined in mouse		
CD331	FGFR1, FLT2, N-SAM	fibroblasts, epithelial	binds FGF, wound healing, bone development	
CD332	FGFR2, KGFR, KSAM	fibroblasts, epithelial, ectoderm of embryo	binds FGF, embryonic limb development, AER	
CD333	FGFR3, ACH, CEK2	fibroblasts, epithelial, astrocytes	binds FGF, bone & CNS development	
CD334	FGFR4, TKF	fibroblasts, epithelial, hepatocytes	binds FGF, bone development	
CD335	NKp46, Ly-94, MAR1	NK	binds non-MHC, NK activation	
CD336 (H)	NKp44	not defined in mouse		
CD337	Ncr3, IC7, Ly117	mouse IC7 mRNA in liver		
CD338	ABCG2, Mxr, ABC15, BCRP1	stem cell subset (side population)	multi-drug resistance transporter	
CD339	Jagged-1, Serrate1	BM stromal & mac, stromal cell lines	receptor for Notch-1, 2, & 3, hematopoiesis, Th2 fate	
CD340	ErbB-2, c-neu, HER2	fetal heart, gonads; adult- uterine epithelial cells and in synaptic sites of muscle fibers	member of the ERBB family of receptor tyrosines;Involved in a wide range of cellular responses.	
CD344	Frizzled-4, F24	embryonic and adult tissue	act of the Wntβ-catenin pathway; regulation of tissue and cell polarity	
CD349	Frizzled-9, Fzd9	selectively expressed in the developing and adult	act of the Wntβ-catenin pathway; regulation of tissue and cell polarity	
CD350	Frizzled-10, Fzd10	embryonic and adult tissue	act of the Wntβ-catenin pathway; regulation of tissue and cell polarity	

Abbreviations

Act	Activated	ESC	Embryonic Stem Cells	NK	Natural Killer Cells
ASV	Alternative Splice Variants	FDC	Follicular Dendritic Cells	RBC	Red Blood Cells
BM	Bone Marrow	GPI	Glycophosphatidylinositol	RTK	Receptor Tyrosine Kinase
CCRSF	Complement Component Receptor Superfamily	Gran	Granulocytes	Th	T Helper Cells
CD	Cluster of Differentiation	HEV	High Endothelial Venule	TF	Transcription Factor
CHO	Carbohydrate Moiety	HUVEC	Human Umbilical Vein Endothelial Cells	TM	Transmembrane
CNS	Central Nervous System	IgSF	Immunoglobulin Superfamily	TM12SF	12-Transmembrane Spanning Protein Superfamily
CRSF	Cytokine Receptor Superfamily	kD	KiloDalton	TM4SF	4-Transmembrane Spanning Protein Superfamily
CTL	Cytotoxic T Lymphocyte	LRRF	Leucine Rich Repeat Family	TM7SF	7-Transmembrane Spanning Protein Superfamily
DC	Dendritic Cells	Lymph	Lymphocytes	TNFRSF	TNF Receptor Superfamily
ECM	Extracellular matrix	Mac	Macrophages	TNFSF	TNF Superfamily
Endoth	Endothelial Cells	MHC	Major Histocompatibility Complex	w/	Associates With
Epith	Epithelial Cells	Mono	Monocytes		

Format Abbreviations

FG Purified	Functional Grade Purified (sterile & azide-free)
PE	Phycoerythrin
PE-Cy5	Phycoerythrin-Cy5 Tandem
PE-Cy5.5	Phycoerythrin-Cy5.5 Tandem
PE-Cy7	Phycoerythrin-Cy7 Tandem
APC	Allophycocyanin
APC-Cy5.5	Allophycocyanin-Cy5.5 Tandem
APC-Alexa Fluor® 750	Allophycocyanin-Alexa Fluor® 750 Tandem

References

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