## CD Antigens





<b>CD Antiger</b> CD1a	27992, 22352, 27991, 708	Cellular expression  Cortical thy, Langerhans, DC	<b>Functions</b> Non-peptide Ag presentation	Reported markers of*  Thymics - marks T cells at the short cortical thymic stage of
CD1b	23992	Cortical thy, Langerhans, DC	Non peptide Ag presentation	differentation Cortical thy
CD1c	18216	Cortical thy, Langerhans, DC, B cell subset	Non peptide Ag presentation	Myeloid DC 1; cortical thy
CD1d	11076	Intestinal epi, B cell subset,	Non peptide Ag presentation	
CD1e	General CD1 antibodies: 24877, 25599,	DC	Non peptide Ag presentation	
CD2	24837, 24986 27995, 25241, 27994, 34250	Thy, NK cells, T and B cells	Adhesion; T cell activation	Pan T cells (with CD4+ suppressor/ inducer T cells; with CD8+ cytotoxic/suppressor T cells); human NK cells; thy
CD3	24947, 27349, 27331, 33429, 3985	Mature T cells, thy	Signaling T cell activation; regulation of TCR expression	Pan T cells (with CD4+ suppressor/ inducer T cells; with CD8+ cytotoxic/suppressor T cells); NK cells
CD4	48391, 21418, 33437, <mark>34271</mark> , 23803,	Thy subset, T helper/ inducer and regulatory cells, mono, mac	T cell activation; thymic differentiation; HIV receptor	TH cells; regulatory T cells; mono; marker of HIV infection; subcortical and cortical thy; CD4+ medullary thy subset (when used in conjunction with other thy markers)
CD5	25280, 24500, 24873, <mark>25161</mark> , <b>36466</b>	Thy, T and B cell subset, B-CLL	Regulates T cell-B cell lymphocyte interaction	Pan T cells (with CD4+ suppressor/ inducer T cells; with CD8+ cytotoxic/suppressor T cells); subcortical thy
CD6	34290, 33782, 9181, 49503, 22381	Thy, T and B cell subset, neuron subset	Thy development; T cell activation	T and B lph; a potential marker of T cell activation
CD7	1158, 27324, 34293, 8236, 16042	Thy, T cells, NK cells, pluripotent HSC, thy	T cell costimulation	Pan T cells (with CD4+ suppressor/ inducer T cells; with CD8+ cytotoxic/suppressor T cells); thy; pluripotent HSC
CD8	26004, 34153, 25417, <mark>34282,</mark> 34364	Thy subset		Tc cells; subcortical and medulary thy subset (when used in conjunction with other thy markers)
CD8a	25499, 25676, 25498, 25167, 25478, 33786	Thy subset, Tc cells, NK cells, DC subset	Co-receptor for MHC class 1 molecules	
CD8b	21246, 21247, 21245, 41328, 21248	Thy subset, Tc cells	Co-receptor for MHC class 1 molecules	
CD9	34162, 34161, 2215	Plt, pre-B cells, eos, Baso, activated T cells, endo	Cell adhesion and migration; platelet activation	ESC; plt; Baso; mono
CD10	28096, 27384, 35268, 34199	and epi cells  B and T cell precursors, fib, neu, bone marrow stromal	Peptidase; regulates B cell growth	Mesenchymal / lymphoid stem cells; neu; pre-pre B lph
CD11a	19570, 25500, 24951, 52895	cells  Lk, lph, gran, mono and mac	Intracellular adhesion and costimulation	Mono and mac
CD11b	25482, 24874, 25175, 24954, 6332,	Gran, mono, NK cells, T and B cells, DC	Cell adhesion; apoptosis; chemotaxis	Mesenchymal stem cells ; macrophage/monocyte/myeloid cells; gran; microglial cells
CD11c	42800, 33485, 52632, 11029	Mono, mac, gran, T and B cell subset	Cell adhesion	Marker for CD11c subset of myeloid cells; type 1 myeloid DC; monocyte and mac; gran
CD13 CD14	46882, 46883, 25723, 7417 25620, 16174,	Gran, mono (+ precursors), endo cells, epi cells. Mono, mac	Zinc binding metalloproteinase  Receptor for complex of LPS and LBP	Mesenchymal stem cells; mono; gran Monocyte and mac; endo
	16175, <mark>21889</mark> , 8103	(myelomoncytic cells) Langerhans, gran	receptor for complex of El 5 and ES.	progenitors
CD15	42751, <mark>28103</mark> , 20137	Gran, mono, neu, eos	Cell adhesion	Endo progenitors; granylocyte/ neu; mono; cancers - Reed- Sternberg cells of Hodgkin's disease; on T cell lymphomas including mycosis fungoides and
CD16	46885, 46886, 52047, 664	Neu, NK cells, mac	Low affinity Fc receptor; mediates phagocytosis and ADCC	on some leukemias. Gran; neu; NK cells; mac
CD17 CDw17	1902	Mono, plt, B cell subset,	Lactocyl ceramide; cell surface	Mono; neu/Baso Plt
CD18	40911, 52049,	gran, DC, T cells, plt, neu Lk	glycosphingolipid Cell adhesion	
5D40	25489, <b>52050</b> , <b>8220</b>	Day II. (but NOT also	C'arabara la tila	D
CD19	25484, 1167, 52056, <mark>25609</mark> , <b>31947</b>	B cells (but NOT plasma cells), FDC	Signal transduction	Pro and pre B lph; FDC
CD20	25542, 51792, 46896, <mark>25610</mark> , 32090	T and B cell subset	B cell activation and proliferation	B Cells; Baso; cancers - used for the typing of malignant lymphomas and other lymphoproliferative disorders
CD21 CD22	24887, 25355, 24827, 24992 25267, 24971, 25369, 21890,	Mature B cells, FDC, T cell subset Mature B cells	Signal transduction  B cell adhesion; signal transduction	Mature B cells; plt; Baso; cancers - useful in phenotyping mature
CD23	25135 25457, 46908, 24999, 24957,	Mature B cells, activated mac, eos, FDC, plt	Low affinity receptor for IgE; ligand for CD19; CD21 and CD81	leukemias  Activated mac; plt; activated eos; activated B cells
CD24	710 51535, 25657, 25646, 25658,	B cells, gran, epi cells, mono	Regulation of B cell proliferation and differentiation	Pancreatic cancers; Pro B lph; neutrophil/Baso
CD26	31622 30359, 30360, 42897, 3154	Mature thy, T cells (upregulated on activation), activated B	Exoprotease; HIV pathogenesis	Activated B and T cells; mac
CD27	30366, 30367,	cells, NK cells, epi cells, mac T cells, medullary thy, B cell	Costimulation of T cell and B cell	B cell malignancies
CD27 CD28	10456 25488, 24908,	subset, NK cells  Most T cells, thy, plasma	activation  Costimulation	Activated B cells
CD29	25487, 25178, 13463 36468, 23834,	cells, NK cells, activated B cells	Interacts with CD49a in VLA-1 integrin	ca. caca o cons
	30393, <mark>23825,</mark> 7168 24976, 25187,	Activated T and B cells,	Regulates lymphocyte proliferation	ESC; activated T and B cells; cell
CD30	<b>25186</b> , 23766	mono, activated NK cells, Reed-Sternberg cells	and cell death. Has a critical role in the pathophysiology of Hodgkin's disease and other CD30+ lymphomas.  Cell adhesion	surface antigen of Hodgkin's and Reed-Sternberg cells  Mesenchymal stem cells; plt; mono
CD30	25563 23350	Mono alt area endo	cen dentesion	and mac; gran; T cells (with CD4+
CD31	25563, 23359, 25644, 7389, 7388	Mono, plt, gran, endo, lymphocyte subset, epi cells		suppressor/inducer T cells; with CD8+ cytotoxic/suppressor T cells)
CD31	25644, 7389, 7388 30356, 30357, 30355, 45143	lymphocyte subset, epi cells B cells, mono, gran, plt, endo cells	Regulation of B cell function; induces phagocytosis and mediator release	CD8+ cytotoxic/suppressor T cells) monocyte and mac; neu
CD31 CD32 CD33	25644, 7389, 7388 30356, 30357, 30355, 45143 25773, 25906, 21892, 30371	lymphocyte subset, epi cells  B cells, mono, gran, plt, endo cells  Mono, gran, mast cells, myeloid progenitors	phagocytosis and mediator release Lectin acitivity; adhesion	CD8+ cytotoxic/suppressor T cells) monocyte and mac; neu  Myeloid cells; mono
CD31 CD32 CD33	25644, 7389, 7388 30356, 30357, 30355, 45143 25773, 25906,	lymphocyte subset, epi cells  B cells, mono, gran, plt, endo cells  Mono, gran, mast cells,	phagocytosis and mediator release	CD8+ cytotoxic/suppressor T cells) monocyte and mac; neu
CD30  CD31  CD32  CD33  CD34  CD35	25644, 7389, 7388 30356, 30357, 30355, 45143 25773, 25906, 21892, 30371 18225, 46924, 46970, 21252,	lymphocyte subset, epi cells  B cells, mono, gran, plt, endo cells  Mono, gran, mast cells, myeloid progenitors  HSC and progenitors,	phagocytosis and mediator release Lectin acitivity; adhesion	CD8+ cytotoxic/suppressor T cells) monocyte and mac; neu  Myeloid cells; mono  Pro and pre B lph; eryth; stem cell and early and late progenitors; lymphoid stem cells; endo

CD Antige CD37	an <b>AbID</b> 30414, 518, 19701	Cellular expression  Mature B cells, myeloid cells. Low level of	<b>Functions</b> Signal transduction	Reported markers of*
CD38	25041, 24978, 24977, 25004, 2577	expression in T cells, gran and mono  Variable expression levels on most hematopoietic and some non-hematopoietic cells.  High levels on plasma cells, early T and B cells, activated T cells, germinal	Regulates cell activation, proliferation and adhesion	Immature and activated B and T cells; plasma cells; mono; Baso; thy; hematopoietic/lymphoid stem cells
CD39	30423, 30424, 3042	centre B cells  Mac, Langerhans, DC, activated B cells, NK cells,	B cell adhesion; protects activated cells from lysis	Neuronals; potential marker of NK cells
CD40	25567, 27281, 25270, <mark>27927</mark> ,	microglial cells  B cells, mono/mac, FDC, endo, fib, keratinocytes	Costimulation of B cell growth; differentiation and isotype switching	mono
D41	25298 19687, 19690, 30434, 15021	Plt, megaK	Plt activation and aggregation	Plt
D42a	30398, 30399, 30397, 19729 30401, 30402,	Plt, megaK	Plt adhesion and aggregation  Plt adhesion and aggregation	Plt Plt
D42b	30400, 2578 23773	Plt, megaK	Plt adhesion and aggregation	Pit
D43	46727, 33873, 13471, <mark>28104</mark> , 9088	lk (except resting B cells). Low expression in plt	Anti-adhesion; binds CD45 to mediate adhesion	Mono; granulocyte/neutrophil/ basohphils; T cells (with CD4+ suppressor/inducer T cells; with
D44	25451, 19622, 25224, <mark>25171</mark> ,	Hematopoietic and non- hematopoietic cells	Lk rolling, homing and aggregation. Adhesion of lk to endo cells, stromal	CD8+ cytotoxic/suppressor T cells)  Mesenchymal stem cells; eryth
D45	6124 25519, 27287, 25603, 19592,	(not plt)  Hematopoietic cells (not eryth and plt)	cells, and the extracellular matrix.  Critical for T cell and B cell receptor mediated activation.	Lk; hematopoietic progenitors
D45RA	8216 30507, 27290,	B and T cell subset (naïve	Critical for T cell and B cell receptor	Naïve T cell subsets; B cell subsets;
D45RB	27292, 30476, 22363 28331, 25006,	T), mono, medullary thy  T cell subset, B cells, mono,	mediated activation  Critical for T cell and B cell receptor	Mono and mac
D45RC	25647, 28110, 8218 24937, 25521,	mac, gran, DC, NK cells  B cells, NK cells, CD8+ T	mediated activation  Critical for T cell and B cell receptor	
D45RO	25213, 3135 51564, 19758,	cells, subset of CD4+ T, medullary thy, mono, DC Activated T and memory T	mediated activation  Critical for T cell and B cell receptor	Monocyte and mac; gran; helper/
	19741, 23	and B cells subset, mono/ mac, gran, cortical thy, DCsubset	mediated activation	inducer T cells
D46	28068, 26014, 28067, 789	Lk, plt, endo cells, epi cells, Placental trophoblasts, sperm and some tumor cells, hematopoietic and non hematopoietic nucleated cells	Co-factor for factor 1 proteolytic cleavage of C3b and C4b; sets protective barrier threshold against inappropriate complement activation	
CD47	33950, 33953, 48517, 9089	Hematopoietic cells, epi cells, endo cells, mesechymal cells	Adhesion	
CD48	48314, 51595, 30478, 28111, 9185	Lk	Cell adhesion; T cell costimulation	T cells (with CD4+ suppressor/ inducer T cells; with CD8+ cytotoxic/suppressor T cells)
D49a	33672, <mark>34160</mark> , 34445	Activated T cells, mono, melanoma cells, endo cells	Adhesion; embryo development	
D49b	41460, 30486, 42775, <mark>30485</mark> , 30487	Plt, B cells, mono, activated T cells, epi cells, endo cells, NK cell subset, megaK	Adhesion; platelet aggregation; receptor for echovirus 1	NK cells; plt; mono; activated T cells
D49c	30488, 30489, 20140	Most adhesion cell lines. Low expression on B and T cells	Adhesion and signal transduction	
D49d	25796, 25666, 24944, 220	T and B cells, thy, mono, eos, Baso, NK cells, mast cells, DC, erythroblastic precursors	Adhesion, cell migration, homing and activation	T cells (with CD4+ suppressor/ inducer T cells; with CD8+ cytotoxic/suppressor T cells); neuronal stem cells
D49e	23815, 25461, 25189, 24694	Thy, T cells, mono, plt, early and activated B cells, endo cells, epi cells	Adhesion; regulation of cell survival and apoptosis	mono; activated T cells
D49f	30496, 30497, 28080, 20142	Memory B cells, T cells, thy, mono, plt, megaK, epi, endo, cytotrophoblasts	Adhesion and cell migration; embryogenesis	ESC; mono; plt; activated T cells
D50	47029, 42907, 21895, 10804	Lk, thy, Langerhans, endo cells, T and B cells, gran, mono	Adhesion and costimulation	
D51	33078, <mark>48520</mark> , 34226	Plt, activated T cells, endo cells, osteoblasts,	Adhesion; signal transduction	
CD52	33083, 36443, 2576	melanoma cells, megaK Thy, lph (not plasma cells), mono/mac, epi cells	Glycosylphosphatidylinositol (GPI) anchored antigen which may play a role in carrying and orienting	Gran
D53	33864, 667	Lk, DC, osteoblasts,	carbohydrate Signal transduction	
CD54	24869, 25553, 25007, 2213	osteoclasts Endo, mono, hematopoietic and non-	Extravasation of lk from blood vessels; regulates T cell activation	Endo cells
D55	25634, 25540,	hematopoietic cells. Low expression on resting lph, upregulation on activation Hematopoietic and	Regulates complement activation;	Eryth
D56	25635, 1422 48524, 7169,	nonhematopoietic cells  Neural tissues, NK cells, T	ligand or protective molecular in fertilization; signal transduction  Homophilic and heterophilic adhesion	Neuronals; NK cells
	48522, 1 <mark>9774,</mark> 9272	cell subset, small cell lung carcinoma		
D57 D58	25605, 25577, 25614, 8597 26006, 27301,	NK cell subset, T cell subset, mono  Lk, eryth, epi cells, endo	APC-T, killer target cell interaction;	NK subsets
	21897, 1420	cells, fib, hematopoietic and nonhematopoietic cells	costimulation	
CD59	36467, 15686, 42788, <mark>28114</mark> , 9182	Hematopoietic and non- hematopoietic cells	Prevents complement polymerization; protects cells from complement mediated lysis	Hematopoietic stem cells; eryth
Dw60	22384, 25755	Subset of CD4+ and CD8+ peripheral T-cells, plt, mono	Co-stimulation of T cells	Plt
CD61	33271, 33272, 19784, 7167	With CD41 on plt, with CD51 on mac, endo, fib, megaK, osteoclasts, mast	Mediates cell adhesion to diverse matrix proteins	MegaKaryocyte and plt
D62E	51241, 13481, 51529, 6630	cells, mac Activated endo cells, E-Selectin	Lk rolling; tumor cell adhesion; angiogenesis	Endo progenitors
D62L	41459, 24876, 25600, <b>3920</b>	B and T cell subset, mono, gran, NK cells, thy	Lk rolling and homing (L-selectin)	Naïve/effector memory T cells
D62P D63	33279, 42795, 6632 19787, 18236,	Activated plt, endo cells, megaK, P-selectin Activated plt, mono, mac,	Lk terythering and rolling  Translocated to cell surface on	Plt, endo cell, and granulocyte
	1318	gran, endothelium	activation of plt, endo cells and gran. Associated with the early stages of melanoma tumor progression (in regulation of motility and adhesion of melanoma cells).	activations; monocyte and mac; melanomas – involved in early stages of melanoma tumor progression
D64	34224, 23890, 27928, 9248 51913, 51912	Mono, mac  Gran, myeloid cells, Low	High affinity receptor for IgG	Monocyte and mac; activated neutrophil, eosinophil and Baso Useful for studies of stages of
D65 D66	51913, 51912 51569	Gran, myeloid cells. Low expression on mono		myeloid cell proliferation  Activated neutrophil, eosinophil
D66a	CD66a, c, d, e 51534, 48589	Mature gran, eptithelial cells, hematopoietic tissues, neu, colon and liver	Homophilic and heterophilic adhesion; neutrophil activation	and Baso Neu  Gran; neu
CD66c		Neu, epi cells, colon carcinoma	Cell adhesion; neutrophil activation	Gran
D66d D66e		Neu Adult colon epi, colon carcinoma	Neu activation Homophilic and heterophilic adhesion	Neu
D66f		Eptihelial, placental syncytiotrophoblasts, fetal	Immune regulation and protection of fetus from maternal immune system;	
D68	955	liver  Mono, mac, neu, Baso, DC, myeloid progenitors	pregnancy specific glycoprotein.  Possibly has a role in phagocytic activities of tissue mac, both in	Mac; mono and microgilals
			intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions; binds to tissue- and organ-specific lectins or selectins, allowing homing of macrophage subsets to particular sites; recirculation of CD68 from endosomes and lysosomes to the plasma membrane; may allow mac to crawl over selectin bearing substrates or other cells.	
CD69	24848, 25570, 25008, 51862	Activated lk, NK cells, thy subset, plt, Langerhans, activated mac	Signal transmitting receptor	Activated mac; T and B cells; NK cells
CD70	24538, 21950	activated mac Activated B and T cells, mac	Induces proliferation of costimulated T cells; enhances the generation of Tc cells and contributes to T cell activation. This cytokine is also reported to play a role in regulating B-cell activation, cytotoxic function of NIC.	Activated B and T cells
			activation, cytotoxic function of NK cells; and immunoglobulin sythesis.	
CD71	33996, 25622, 7350, 8508	Proliferating cells,	Transferin receptor 1 - controls iron	Erythroblasts; mac; activated B
	7350, 8598 33286, 18223,	reticulcytes, erythroid precursors, activated lk B (not plasma) cells, mac,		Erythroblasts; mac; activated B and T cells  Pro and pre B lph
CD71 CD72 CD74	<b>7350</b> , 8598	reticulcytes, erythroid precursors, activated lk	Transferin receptor 1 - controls iron uptake during cell proliferation	and T cells

	24151	B cells (expresson increases on B cell activation), tissue mac, epi cells	Expressed as part of the MHC class II molecule	
CD79a	33290, 42798, 712	mac, epi celis B cells	Subunit of B cell antigen receptor (CD79a+CD79b); signal transduction	Pro and pre B cells; Cancers - majority of acute leukemias of precursor B cell type, B cell lymphomas and in some
CD79b	25169, 24939, 25522, <mark>26275</mark> ,	B cells	Subunit of B cell antigen receptor (CD79a+CD79b); signal transduction	myelomas B cells
CD80	23826 25555, 42803,	Activated B and T cells,	Costimulation of T cell activation and	Activated B cells
CD81	42925, 24970, 53003 24940, 25513,	mac, DC  T and B cells, NK cells,	proliferation  Signal transduction	
	25675, 33697	mono, thy, DC, endo cells, fib		
CD82	27338 <b>, 47098</b>	Lk (upregulation on activation), plt	Signal transduction	
CD83 CD84	48245, 48318, 48320, 49324 33217, 33218,	Activated T and B cells, circulating DC, Langerhans Mature B cells, T cell subset,	Regulates immune response  Homophilic adhesion molecule;	Hematopoietic stem cells; plt;
CD86	3202 25556, 24862, 25594, 25239,	mono/mac, plt, thy  Mono, activated B and T cells, endo	enhances T cell activation and cytokine production  Costimulation of T cell activation and proliferation	mono;  Mono; activated B cells
CD87	53004 27423, 3129	Gran, mono, NK cells, T cells, endo cells, fib,	Cell chemotaxis; adhesion	Mono and mac; gran; activated
CD88	33951, 21652,	hepatocytes Gran, mono, DC,	Gran activation	Reactive astrocytes and
CD89	54378, 12962 33221, 33211, 22520	astrocytes  Mono, mac, gran, neu, B and T cell subset	Induces phagocytosis, degranulation and respiratory burst	microglias; mac; gran Mono; neu
CD90	25322 <b>, 25672,</b> 24904 <b>, 8872</b>	Hematopoeitic cells, neurons, fib, stromal cells, HEV endo cells, mouse T cells	Costimulation of lph; possible inhibition of stem cell and neuron differentiation	Hematopoeitic / lymphoid stem cells; neuronals
CD91	33201, 34024, 33200, 28320	Mono, mac, neurons, fib	Alpha 2 mac; globulin receptor	Mono
CD93	33223	Mono, gran, endo cells, neu	May mediate the enhancement of phagocytosis in mono and mac upon interaction with soluble defense collagens; may play a role in intercellular adhesion	Mono; neu; endo cells
CD94	25020, 33204, 33203, 19740	NK cells, T cell subset	Inhibition of NK cell function; induces cytolytic activity and cytokine production	NK cells
CD95	25290, 33227, 25405, <mark>25559</mark> , 2437	Mono, neu, lph, fib	Fas: Induces apoptosis (Some abcam antibodies have been tested in functional studies for the induction of apoptosis. See <a href="https://www.abcam.com">www.abcam.com</a> for details)	
CD97	23490, 33229, 13023 33236, 42928,	Gran, mono. Low expression in lph, mac, DC	Neu migration  Cell activation; cell aggregation	Mono; T cells (with CD4+
CD98	33236, 42928, 26009, 33232	Mono, lph NK cells, gran. All human cell lines.		Mono; T cells (with CD4+ suppressor/inducer T cells; with CD8+ cytotoxic/suppressor T cells)
CD99	48530, 48531, 48529, 9087	Lph, NK cells, mono, gran, endo cells, epi cells, some tumor cells, thy	Lk migration; T cell activation; cell adhesion	
CD100	33259, 33261, 33260	Lk, oligodendrocytes	Mono migration; T and B activation; T cell-B cell and T cell-DC interaction	
CD101	33263, 33264, 24039 47207, 25524,	Mono, gran, DC, activated T cells, Langerhans Resting lph, mono, plt,	T cell activation and proliferation  Adhesion; costimulation; lymphocyte	Monocyte and mac; gran  Mono; T cells (with CD4+
CD102	47207, 25524, 25262, 35045	Resting lph, mono, pit, vascular endo cells	Adhesion; costimulation; lymphocyte recirculation	suppressor/inducer T cells; with CD8+ cytotoxic/suppressor T cells);
CD103	24938, 25517, 48246, 25198	Intraepi lph, some peripheral blood lph, activated lph	Lph retention; activation	endo cells
CD104	22486, 41342, 25254	Epi cells, endo cells, Shwann cells, keratinocytes	Cell adhesion; migration; tumor metastasis	Macanchumal stars of the
CD105	18278, 53321, 49228	Endo, mesenchymal stem cells, erythroid precursors, activated mono, mac	Angiogenesis; modulates cellular response to TGF beta 1	Mesenchymal stem cells; endo progenitors; activated mac
CD106	24853, 25452, 7224, 19264	Activated endo cells, FDC	Lk adhesion; transmigration and costimulation of T cells	Activated endo cells
CD107a	24871, 25367, 48247, 25245	Activated plt, activated T cells, activated endo cells, activated gran	LAMP1: Promotes adhesion of human PBMC to vascular endothelium; possibly involved in the adhesion of PBMCs to the site of inflammation	
CD107b	25082, 24945, 25368, <mark>25447,</mark> 25631	Activated plt, activated T cells, activated endo cells	LAMP2: Lysosomes play a critical role in cellular metabolism. LAMP2 may be involved in leucocyte adhesion; important in autophagy - process of	Lysosomes
CDw108 CD109	26012, 8222 27343, 4 <b>72</b> 11	Activated T cells, eryth Activated T, activated plt, subset of CD34+ cells, endo cells	bulk degradation of cellular protein	Activated T cells Plt; activated T cells; endo cells
CD112	16912	Mono, neu, subset of CD34+ cells, endo cells, epi	Intracellular adhesion	Mono; neu
CD114	11411, 10657	cells, myeloid cells.  Myeloid progenitor cells, endo and trophoblastic	Myeloid cell proliferation and differentiation	Gran; neu; Baso
CD115	37858	cells  Mono, mac, monocytic progenitors, neuronal cells,	Monocytic cell proliferation and differentiation	Mono
CD116	10670	osteoclasts  Mono/mac, gran, DC, endo cells, eos	Myeloid cell hematopoiesis and differentiation	Mono; neu; endo cells
CD117	21321, 42776, 25364, <mark>21322</mark> ,	HSC and progenitors	c-kit: Crucial for development of gonadal and pigment stem cells	Hematopoetic / lymphoid stem cells and progenitors
CDW119	16832 11286, 21431, 11285	Lph, NK cells, mono/mac, gran, endo cells, epi cells	Role in host defense and immunopathological processes	
CD120	25472, 36251, 16920, 19139	Hematopoietic and non- hematopoietic cells, epi cells	Cell differentiation; apoptosis; necrosis; anti bacterial; viral and parasitic.	Short I II
CD121a	<b>25074</b> , 20876	Low expression in fib, lph, mono/mac, gran, DC. epi cells, neural cells	IL-I receptor I: Mediates IL-1 signaling	Stromal cells; endo cells
CDw121b	34838	B cells, mono/mac, some T cells, keratinocytes	IL-I receptor II: Mediates negative signaling	Monocyte and mac
CD122	25516, 24943, 21466, 33956, 21467	NK cells, resting T cells, subset of B cells, mono	IL-2 Receptor beta: IL-2 and IL-15 receptor beta chain signaling	
CD123	21469, 21468, 50277	Vasophils, eos, hematopoietic progenitors, mac, DC, endo cells, small subset of lph	IL-3 receptor alpha chain	Baso; mono; granulocyte/neu; pluripotent stem cells
CD124	50277	Low expression on lk and progenitors, endo and epi cells, fib, mature T and B cells	Receptor for IL-4 and IL-13	Lymphoid stem cells; endo cells; Pro B lph; T cells (with CD4+ suppressor/inducer T cells; with CD8+ cytotoxic/suppressor T cells)
CD125	10759 34304, 47215	Eos, Baso, activated B cells, mast cells Activated B and plasma	Receptor for IL-5 (IL5RA)  IL-6 receptor subunit	Baso  Plasma cells
CD127	33704, 48527,	cells, T cells, mono, epi cells, fib B precursors, mature T cells,	IL-7 receptor alpha chain	Lymphoid stem cells; pro B lph;
CD128	48526 38989, 38991, 8042, 13018	thy, mono Neu, Baso, T cell subset	IL-8 receptor	mono
CD129 CD130	48497, 10773 47218, 27359	T cells, activated B cells,	IL-9 receptor Transmitts activities of IL-6, IL-11, LIF	
CD131	21581 <b>, 45176</b> ,	plasma cells, mono, endo cells Mono, gran, early B cells, hematopoietic stem cells	Transducing signal from IL-3R, IL-5R and GM-CSFR	neutrophil/Baso
CD133	16518, 5558	Hematopoietic stem cell subset, epi and endo precursors, neural precursors	OV40: T == 11 = 11 = 11	Stem and early progenitor cells (including neural and ESC)
CD134 CD135	33960, 34009, 6415 18463, 33285,	Activated T cells, regulatory T cells Mutipotential, myelocytic	OX40: T cell activation, proliferation and differentiation; apoptosis; cell adhesion Receptor tyrosine kinase	Activated T cells  Pluripotent stem cells
	23895, <mark>33283</mark> , 37847	mono and primitive B cell progenitors		,
CD137 CD138	33289, <b>3169</b> 27390, 27329,	Activated T cells, FDC, mono, activated B cells, epi cells  Plasma cells, pre-B cells,	Costimulation of T cell activation  ECM receptor / Syndecan	Breast cancers; Plasma cells
	27362, 34164	epi cells, neural cells, breast cancer cells	Seepeer , syndecan	
CD140	35664 48204 49310	B cells, mono, gran, FDC, eryth	Cell proliferation differentiation and	Stromal cells
CD140 CD141	48204, <del>49310</del> 27396, 6980	Fib, mesenchymal cells, plt, glial cells, chondrocytes Mono, neu, plt, endo cells	Cell proliferation, differentiation and survival  Activation of protein C and initiation of	Stromal cells  Myeloid DC; endo cells
CD141	35807	Mono, epi, astrocytes,	protein C anti-coagulant pathway Initiates blood clotting	Mono; endo cells
CD143	11709, 33318, 11739, 11738	Schwann cells, endo cells Endo, epi cells, DC, neuronal cells, activated	Angiotensin converting enzyme	
CD144	33321, 7047	mac Endo cells, stem cell subset	Cell adhesion	Stem cell subsets; endo cells
CD146	33300, 25435, 24577	Endo cells, melanoma, FCD, activated T cells	Cell adhesion  Cell adhesion: T cell activation	Endo progenitors; activated T cells; FDC
CD147  CD148	34044, 23876, 21898, 666 10639	Lk, eryth, plt, endo cells  Gran, mono, DC, plt, B	Cell adhesion; T cell activation  Tyrosine phosphatase; cell growth and	Eryth; plt; mono; endo cells
CDITO		cells, T cells	differentiation	Hamakan asikia muananikana Taalla
CD150	33314, 42814, 33313, 33311	T cells (up regulated on activation), regulatory T cells, B cells, DC, endo cells	Costimulation; measles viral infection	Hematopoeitic progenitors; T cells (with CD4+ suppressor/inducer T cells; with CD8+ cytotoxic/ suppressor T cells)

D154	33967, 33319, 49319, 19792 36434	Activated T cells, activated B cells  Activated T cells, activated activated T cells, activated	Negative regulation of T cell activation  Costimulation of T cell activation; ligand	Reported markers of*  Activated T cells; endo cells  Activated T cells
	24934, 27408,	mac, activated neu, activated B cells Activated T cells, activated	for CD30  Costimulation; ligand for CD40	Activated CD4+ T cells; Baso
D155	24966, 47204 3142	plt, activated mono  Mono, mac	Cell migration and adhesion; polio virus	Monocyte and mac
D156a	38981	Mono, gran	infection Cell adhesion	Monocyte and mac; gran
D156b	39162	Lph, mono, gran, DC, endo cells, epi cells	Cleaves transmembrane form of TNF-α and TGF-β to generate soluble forms	
D156c D157	1997	Articular chondrocytes, lk, brain, tumor cells Gran, mono, B cell	Metalloprotease activity; cell-cell and cell-matrix interaction  ADP-ribosyl-cyclic ADP-ribose hydrolase	Mono; neu; endo cells
D137		progenitors, endo cells, T cell subset	activities; pre B cell growth	World, fled, endo cens
D158	21564, 27954, 21566, 14825	Most NK cells, T cell subset	Most CD158 subtypes inhibit NK cell cytotoxicity; other subtypes activate NK	
D159a	24983	NK cells, some T cell subset	cell cytotoxicity  Negative regulation of NK cell activation	
D159c	21651, 25905,	NK cells, CD8 <sup>+</sup> T cells  Most NK cells , NK-T cells,	Activates NK cell cytotoxicity  NK cell mediated cytotoxicity; induces	NK cells; T cells (with CD4+
DIGI	22516, 23624	memory T cells, thy	immature thy proliferation	suppressor/inducer T cells; with CD8+ cytotoxic/suppressor T cells)
D162	19794, 19793	Mono, gran, most T cells, stem cells	Adhesion; lk rolling	Mono
D163 D165	15676, 17051 3276	Mono, mac Lph subset, mono,	Endocytosis  Important for adhesion of thy to thymic	Monocyte and mac Cortical thy
D166	33404, 53442	immature thy, plt, epi cells Activated T and B cells, NK	epi cells.  Adhesion; T cell activation	Activated B and T cells; stromal
		cells, mono, epi cells, fib, neurons, mesenchymal stem / progenitor cells		cells; endo cells; neuronals
D167 D169	37838  18619	Epi cells, DC. Inducible expression in lk  Mono, T cell subset, thy	Collagen receptor  Hyaluronic acid receptor; cell adhesion	Mac
D169 D170	38582	subset, activated lph  Mac, neu, DC	Adhesion	Mac; neu
D170	24345	T cell subset, B cell subset, DC, mono, neurons	Adhesion	Mono
D172	34076, 34059, 33987, 53721	Mono, gran, DC, brain, stem cells	Adhesion	Potential stem cell marker; DC
D173	33404	Eryth (human only), stem cell subset, plt	H antigen: Is a precursor to the A and B blood group antigens (humans only).	Potential stem cell marker; eryth; plt
D174	3359	Stem cell subset, eryth, epi cells	Blood Group Lewis y antigen	Potential stem cell marker
D175s	54464	Erythroblasts, endo cells, epi cells	Binds CD22, Siglec-3-5 and 6; implicated in the induction of metastasis and invasiveness of tumors. Overexpressed in several carsing mass and in several carsing mass and in associated.	
D176	44859	Stem cell subset, epi cells	in several carcinomas and is associated with poor prognosis.  Thomsen Friedenreich antigen: acts	Pan Carcinomas
- 17U		Sen Subsec, epi cells	as an oncofoetal antigen, with low expression in normal adult tissues but increasing to fetal levels of expression in	and the second
D177	26013, 33332, 8090	Neu, Baso, NK cells, T cell subset, mono, endo cells	hyperplasia or malignancy.	
D178	16105, 27409, 18340	Activated T cells, DC, tumor cells, testis	Fas Ligand: Apoptosis induction	Activated T cells
D179a D180	17245 33329, 21328,	Pro and early pre-B cells B cell subset, mono, DC	Early B cell differentiation  LPS recognition and signaling; B cell	Mono; DC
D181	17233, 45429 38989, 38991,	Neu, baso, NK cells, T cell	activation  CXCR1: neutrophil chemotaxis	Neu
	8042, 10400	subset, mono, endo cells	and activation. neoangiogenesis; hematopoiesis	Gran
D182	38998, 39007, 10401	Neu, baso, NK cells, T cell subset, mono, endo cells	CXCR2: neutrophil chemotaxis and activation; Neoangiogenesis; hematopoiesis	Gran
D183	10402	T cell subset, B cells, NK cells, mono, mac,	CXCR3: T cell chemotaxis	Activated T cells
D184	7199	proliferating endo cells T cell subset, B cells, DC,	CXCR4: Cell migration; hemotopoietic	Mono
D185	10405	mono, endo cells B cells, T cell subset,	progenitor cell homing; HIV-1 cell entry CXCR5: Cell migration	Cerebellar neurons
D186		cerebellar neurons Th1 cells, B cell subset, NK	CXCR6: T cell recruitment; HIV-1	
D191		cell subset  Mono, mac, lph, DC, stem cells	coreceptor  CCR1: Leukocyte chemotaxis	Potential stem cell marker; mono
D192	32144	Mono, B cells, activated T cells, DC	CCR2: Leukocyte chemotaxis; HIV- coreceptor	Mono; Baso; endo cells
D193	21342 <b>, 16581</b> , 1 <b>623</b> 1	Eos, Baso, T cell subset, DC, microglia	CCR3: Leukocycte chemotazis; HIV-1 coreceptor	Baso; DC; microglia
D195	11466, 11465, 32048	Mono, T cell subset	CCR5: Lymphocyte chemotaxis; HIV infection	Mono
D196	10398	Memory T cells, B cells, DC, Langerhans	CCR6: Cell migration; HIV coreceptor	DC
D197	25790, <mark>36432</mark> , 32361	T cell subset, DC	CCR7: T lymphocyte adhesion; thy regulation	Helper/inducer T cells
D198		Mono, T cell subset, DC, HUVEC cells Thy, intraepi lph,	Cell migration; HIV 1 coreceptor  Cell migration; HIV 1 coreceptor	Mono
D199 D200	33364, 33365, 33363, 33734	Thy, Intraepi ipn, melanoma cells  Thy, B cells, activated T cells, endo cells, keratinocyte subset	Down-regulatory signal for myeloid cell function	Thy
D201 D202b	15604 27852, 24859	Endo cell subset Endo cells, Stem cell subset	Protein C activation Angiogenesis	
D204		Mac in cortical and medullary regions (thymus), lymph nodes, alveoli, Kupffer cells (liver), mono. Widely expressed by mac	LKL uptake; host defense	Mac
D205	33367, 33368,	lineage cells in the spleen DC, thymic epi cells	Endocytosis; enhances antigen	DC
.D205	24042 8919, 8918	Mac, mono, inflammatory dendritic epidermal cells	presentation Endocytosis	Monocyte and mac; DC
D205		Langerhans, DC	Facilitates antigen recognition and uptake	
		Langernans, DC	aptake	DC
D206	37220	DCsubset	Antigen endocytosis and degradation; attachment of some viruses (including	DC
D206 D207	33405, <mark>21478</mark> ,		Antigen endocytosis and degradation;	
D206 D207 D209 D210		DCsubset	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor	DC
D206 D207 D209	33405, <mark>21478</mark> , 10778	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset,	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding	DC  Monocyte and mac
D206 D207 D209 D210 D213a1 D213a2 D218a	33405, 21478, 10778 3772 34931, 27414	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18	DC  Monocyte and mac
D206 D207 D209 D210 D213a1 D213a2 D218a	33405, <mark>21478</mark> , 10778 3772	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction	DC  Monocyte and mac
D206 D207 D209 D210 D213a1 D213a2 D218a	33405, 21478, 10778 3772 34931, 27414	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non-	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and	DC  Monocyte and mac
D206 D207 D209 D210 D213a1 D213a2 D218a D218B D220 D221	33405, 21478, 10778 3772 34931, 27414 47269, 47258 8093	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration	Monocyte and mac  Mono
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED218B ED220 ED221 ED222 ED223	33405, 21478, 10778 3772 34931, 27414 47269, 47258 8093 8093 41346, 41332	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis	Monocyte and mac  Mono  Eryth; activated T cells
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED218B ED220 ED221 ED222 ED223 ED226	33405, 21478, 10778 3772 34931, 27414 47269, 47258 8093 8093 41346, 41332 33335, 33337, 33393, 24041	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells  T cells, NK cells, mono, plt	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis  Activation of T cells or NK cytotoxicity	Monocyte and mac  Mono
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED218B ED220 ED221 ED222 ED223	33405, 21478, 10778 3772 34931, 27414 47269, 47258 8093 8093 41346, 41332 33335, 33337,	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis	Monocyte and mac  Mono  Eryth; activated T cells
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED220 ED221 ED222 ED223 ED223 ED226 ED227	33405, 21478, 10778 3772 34931, 27414 47269, 47258 8093 8093 41346, 41332 33335, 33337, 33393, 24041 45167	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells  T cells, NK cells, mono, plt  Epi cells, stem cell suset, lymphocyte subset, mono  T cells, B cells, thy  Heamatopoietic and non	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis  Activation of T cells or NK cytotoxicity  Cell adhesion and signaling	Monocyte and mac  Mono  Eryth; activated T cells
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED218B ED220 ED221 ED222 ED223 ED223 ED226 ED227 ED229	33405, 21478, 10778 3772 34931, 27414 47269, 47258 8093 8093 41346, 41332 33335, 33337, 33393, 24041 45167 33400, 51847, 33399, 33398	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells  T cells, NK cells, mono, plt  Epi cells, stem cell suset, lymphocyte subset, mono  T cells, B cells, thy	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis  Activation of T cells or NK cytotoxicity  Cell adhesion and signaling  Lph differentiation  Prevents apoptosis  May be involved in cell proliferation	Monocyte and mac  Mono  Eryth; activated T cells  Mono  Neuronals; Leukaemias -
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED220 ED221 ED223 ED226 ED227 ED229 ED230 ED231	33405, 21478, 10778 3772 34931, 27414 47269, 47258 8093 8093 41346, 41332 33335, 33337, 33393, 24041 45167 33400, 51847, 33399, 33398	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells  T cells, NK cells, mono, plt  Epi cells, stem cell suset, lymphocyte subset, mono  T cells, B cells, thy  Heamatopoietic and non hematopoietic cells  T-ALL cells, neurons	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis  Activation of T cells or NK cytotoxicity  Cell adhesion and signaling  Lph differentiation  Prevents apoptosis  May be involved in cell proliferation and cell motility	Monocyte and mac  Mono  Eryth; activated T cells  Mono
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED218B ED220 ED221 ED223 ED226 ED227 ED229 ED230	33405, 21478, 10778 3772 34931, 27414  47269, 47258  8093  8093 41346, 41332  33335, 33337, 33393, 24041 45167  33400, 51847, 33399, 33398 51666	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells  T cells, NK cells, mono, plt  Epi cells, stem cell suset, lymphocyte subset, mono  T cells, B cells, thy  Heamatopoietic and non hematopoietic cells  T-ALL cells, neurons  Eryth, kidney cells  Eryth, endo cells, epi cells,	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis  Activation of T cells or NK cytotoxicity  Cell adhesion and signaling  Lph differentiation  Prevents apoptosis  May be involved in cell proliferation	Monocyte and mac  Mono  Eryth; activated T cells  Mono  Neuronals; Leukaemias - expressed in acute myelocytic
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED220 ED221 ED223 ED226 ED227 ED229 ED230 ED231	33405, 21478, 10778 3772 34931, 27414  47269, 47258  8093  8093 41346, 41332  33335, 33337, 33393, 24041 45167  33400, 51847, 33399, 33398 51666  48194, 48195, 48196, 40821 51531, 42762,	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells  T cells, NK cells, mono, plt  Epi cells, stem cell suset, lymphocyte subset, mono  T cells, B cells, thy  Heamatopoietic and non hematopoietic cells  T-ALL cells, neurons	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis  Activation of T cells or NK cytotoxicity  Cell adhesion and signaling  Lph differentiation  Prevents apoptosis  May be involved in cell proliferation and cell motility  Anion exchanger  Chemokine decoy receptor  Glycophorin A: Provides the cell with	Monocyte and mac  Mono  Eryth; activated T cells  Mono  Neuronals; Leukaemias - expressed in acute myelocytic
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED220 ED221 ED223 ED226 ED227 ED229 ED230 ED231 ED233 ED234	33405, 21478, 10778 3772 34931, 27414  47269, 47258  8093  8093 41346, 41332  33335, 33337, 33393, 24041 45167  33400, 51847, 33399, 33398 51666	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells  T cells, NK cells, mono, plt  Epi cells, stem cell suset, lymphocyte subset, mono  T cells, B cells, thy  Heamatopoietic and non hematopoietic cells  T-ALL cells, neurons  Eryth, kidney cells  Eryth, endo cells, epi cells, neurons, cerebellum	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis  Activation of T cells or NK cytotoxicity  Cell adhesion and signaling  Lph differentiation  Prevents apoptosis  May be involved in cell proliferation and cell motility  Anion exchanger  Chemokine decoy receptor  Glycophorin A: Provides the cell with a large mucin like surface which may provide a barrier to cell fusion; minimizing aggregation between red	Monocyte and mac  Mono  Eryth; activated T cells  Mono  Neuronals; Leukaemias - expressed in acute myelocytic leukemia cells of some patients
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED220 ED221 ED223 ED226 ED227 ED229 ED230 ED231 ED233 ED234	33405, 21478, 10778 3772 34931, 27414  47269, 47258  8093  8093 41346, 41332  33335, 33337, 33393, 24041 45167  33400, 51847, 33399, 33398 51666  48194, 48195, 48196, 40821 51531, 42762,	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells  T cells, NK cells, mono, plt  Epi cells, stem cell suset, lymphocyte subset, mono  T cells, B cells, thy  Heamatopoietic and non hematopoietic cells  T-ALL cells, neurons  Eryth, kidney cells  Eryth, endo cells, epi cells, neurons, cerebellum	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis  Activation of T cells or NK cytotoxicity  Cell adhesion and signaling  Lph differentiation  Prevents apoptosis  May be involved in cell proliferation and cell motility  Anion exchanger  Chemokine decoy receptor  Glycophorin A: Provides the cell with a large mucin like surface which may provide a barrier to cell fusion; minimizing aggregation between red blood cells in the circulation  Important role in regulating the stability	Monocyte and mac  Mono  Eryth; activated T cells  Mono  Neuronals; Leukaemias - expressed in acute myelocytic leukemia cells of some patients
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED218B ED220 ED221 ED223 ED226 ED227 ED229 ED230 ED231 ED233 ED234 ED235	33405, 21478, 10778 3772 34931, 27414  47269, 47258  8093  8093  41346, 41332  33335, 33337, 33393, 24041  45167  33400, 51847, 33399, 33398  51666  48194, 48195, 48196, 40821  51531, 42762, 6397	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells  T cells, NK cells, mono, plt  Epi cells, stem cell suset, lymphocyte subset, mono  T cells, B cells, thy  Heamatopoietic and non hematopoietic cells  T-ALL cells, neurons  Eryth, kidney cells  Eryth, endo cells, epi cells, neurons, cerebellum  Eryth  Eryth, stem cell subset	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis  Activation of T cells or NK cytotoxicity  Cell adhesion and signaling  Lph differentiation  Prevents apoptosis  May be involved in cell proliferation and cell motility  Anion exchanger  Chemokine decoy receptor  Glycophorin A: Provides the cell with a large mucin like surface which may provide a barrier to cell fusion; minimizing aggregation between red blood cells in the circulation	Monocyte and mac  Mono  Eryth; activated T cells  Mono  Neuronals; Leukaemias - expressed in acute myelocytic leukemia cells of some patients  Eryth
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED220 ED221 ED223 ED226 ED227 ED229 ED230 ED231 ED233 ED234 ED235 ED236 ED236 ED238 ED236 ED238	33405, 21478, 10778 3772 34931, 27414  47269, 47258  8093  8093  41346, 41332  33335, 33337, 33393, 24041  45167  33400, 51847, 33399, 33398  51666  48194, 48195, 48196, 40821  51531, 42762, 6397	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells  T cells, NK cells, mono, plt  Epi cells, stem cell suset, lymphocyte subset, mono  T cells, B cells, thy  Heamatopoietic and non hematopoietic cells  T-ALL cells, neurons  Eryth, kidney cells  Eryth, endo cells, epi cells, neurons, cerebellum  Eryth  Eryth, stem cell subset  Eryth, hematopoietic progenitors  Eryth, fib	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis  Activation of T cells or NK cytotoxicity  Cell adhesion and signaling  Lph differentiation  Prevents apoptosis  May be involved in cell proliferation and cell motility  Anion exchanger  Chemokine decoy receptor  Glycophorin A: Provides the cell with a large mucin like surface which may provide a barrier to cell fusion; minimizing aggregation between red blood cells in the circulation  Important role in regulating the stability of red cells	Monocyte and mac  Mono  Eryth; activated T cells  Mono  Neuronals; Leukaemias - expressed in acute myelocytic leukemia cells of some patients  Eryth  Stem cell subsets; eryth  Eryth  Eryth
ED206 ED207 ED209 ED210 ED213a1 ED213a2 ED218a ED220 ED221 ED223 ED226 ED227 ED229 ED230 ED231 ED233 ED234 ED235 ED236 ED235	33405, 21478, 10778 3772 34931, 27414  47269, 47258  8093  8093  41346, 41332  33335, 33337, 33393, 24041  45167  33400, 51847, 33399, 33398  51666  48194, 48195, 48196, 40821  51531, 42762, 6397	DCsubset  T cells, B cells, NK cells  B cells, mono, endo cells  B cells, mono  Th1 cells, B cell subset, NK cells, moncytes, gran, endo cells  NK cells, T cell subset, mono, endo cells  Lk, fib, endo cells, epi cells  Lk, some non- hematopoietic cells  Lph, mono, gran, fib  Activated T cells, activated NK cells  T cells, NK cells, mono, plt  Epi cells, stem cell suset, lymphocyte subset, mono  T cells, B cells, thy  Heamatopoietic and non hematopoietic cells  T-ALL cells, neurons  Eryth, kidney cells  Eryth, endo cells, epi cells, neurons, cerebellum  Eryth  Eryth, stem cell subset  Eryth, hematopoietic progenitors  Eryth, fib  Eryth  Stem cells, drug resistant	Antigen endocytosis and degradation; attachment of some viruses (including HIV)  IL-10 receptor  IL-13 receptor  Signal transduction through binding to IL-18  Signal transduction  Insulin receptor  Signaling; cell proliferation and differentiation  Cell adhesion; migration  Negative regulation of T cell expansion and homeostasis  Activation of T cells or NK cytotoxicity  Cell adhesion and signaling  Lph differentiation  Prevents apoptosis  May be involved in cell proliferation and cell motility  Anion exchanger  Chemokine decoy receptor  Glycophorin A: Provides the cell with a large mucin like surface which may provide a barrier to cell fusion; minimizing aggregation between red blood cells in the circulation  Important role in regulating the stability of red cells  Endothelin 3 conversion enzyme  Eryth differentiation and trafficking	Monocyte and mac  Mono  Eryth; activated T cells  Mono  Neuronals; Leukaemias - expressed in acute myelocytic leukemia cells of some patients  Eryth  Stem cell subsets; eryth  Eryth
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CD255	21139, <mark>21129</mark> , 21127	Cellular expression  Widely expressed. High expression in heart placenta, lung, muscle, kidney, pancreas, and	TWEAK: Induce apoptosis via multiple pathways in cell type specific manner; promotes proliferation and migration of endo cells as a regulator of	Reported markers of*
CD256	10688	HUVEC Lk, pancreatic cells, colon	angiogenesis T cell and B cell proliferation	
CD257	16082, 12381, 16081 17716, 40819	Activated mono, DC  Activated T cells, activated	T cell and B cell growth and development Costimulation of T cells; induces	DC; activated T cells
CD258 CD261	34399, 18360,	Activated T cells, activated mono  Activated T cells	apoptosis TRAIL/Death receptor; induces	De, activated   CellS
CD263	8414 46861, 18346,	Low expression in most	apoptosis Inhibits trail induced apoptosis	
 CD264	1674 18350, 18349,	cells. Negative in most tumor cells  Low expression in most	Inhibits trail induced apoptosis	
	2019	cells. Negative in most tumor cells		
CD265 CD266	45092, 13918 21359	DC, activated mono Endo cells, epi cells,	Receptor for TRANCE Regulates apoptosis and proliferation	DC
CD267	39124, <mark>39006,</mark> 16230	keratinocytes  B cells, myeloma cells	Inhibits B cell proliferation	Activated T cells
CD268	16230 38977, 38985, 16582, 16232	B cells, T cell subset	B cell survival and maturation; T cell activation	Activated B cells
CD269 CD273	17323 21103, 21159,	B cells, plasma cells DC, activated mono	Plasma cell survival Co-stimulation; inhibition	Plasma cells DC
CD273	21107 28753	T cells, B cells, NK cells, DC,	Co-stimulation; inhibition	DC
CD275	48567, 3774	mac, epi cells Acivated mono, mac, DC	Costimulation	DC ; plasma cells ; activated B ce
CD278	38319	Activated T cells, thy subset	T cell development	Activated T cells
CD279	26209, <mark>26211</mark> , 52587	Activated T and B cells, thy subset	T cell tolerance	Activated B and T cells
CD281 CD282	51673 24996, 13553,	Mono, mac, DC, keratinocytes	Regulates TLR2 function	Mono; neu  Mono; neu
CD282	13464, <mark>9101</mark> , 13463	Mono, gran, mac, DC, keratinocytes	Innate immunity to gram positive bacteria	Mono, neu
CD283	45093, <mark>17264,</mark> 53424	DC, fib, epi cells	Innate immunity to viruses	DC ; stromal cells
CD284	8378, 45104, 9105, 13556	Mono, mac, endo cells	Innate immunity to gram negative bacteria	Mono
CD288	45097, 53630	Lung, peripheral blood lk	TLR8: Role in pathogen recognition and activation of innate immunity	
CD290	53631	Highly expressed in spleen, lymph node, thymus and tonsil	TLR10: Participates in the innate immune response to microbial agents	
CD294	12573	Th2 cells, Baso, eos	Regulates immune and inflammatory responses; induces Th2 cells, eos and	Baso
CD295	5593	Hematopoieic cells, heart,	basophil migration Regulates fat metabolism; regulates	
		liver, kidney, pancreatic cells	proliferative / anti-apoptotic T cells and hematopoietic precursors	
CD299	49862 18130 16786	Endo cells in liver and lymph nodes	T cell trafficking; HCV and HIV infection	Endo cells (liver and lymph node
CD304	18130, 16786 27744, 27755,	DC, T cells, neurons, endo cells  T cells, B cells, NK cells, DC,	Angiogenesis; Dendritic cell-T cell interaction  Inhibits cellular activation and	Plasmacytoid dentritic cells  Mono
CD305 CD307	27744, 27755, 27743, 14826 37457	T cells, B cells, NK cells, DC, mono, mac B cells	Inhibits cellular activation and inflammation  Ig receptor; possible role in B cell	Mono  Activated B cells
CD307	10975, 2349	Endo cells, primitive stem	activation and neoplasia  Angiogenesis	Endo cells
CD312	49922	cells  Mac, activated mono, DC,	Immune and inflammatory response	Monocyte and mac; neu
CD314	35035, 39010,	hepatocytes and lung cells NK cells, T cell subset	NK activation	
CD317	39003, 36136 14694	Plasma cells, lymphoplasmacytoid cells,	Possible role in pre-B cell growth	Pro B lph; mono; DC
 CD318	1377	stromal cells, fib  Hematopoietic stem cells,	May be involved in cell adhesion	Pluripotent stem cells; colon and
		epi cells	and cell matrix association; potential role in the regulation of anchorage versus migration or proliferation versus differentiation via its phosphorylation: possible marker for leukemia diagnosis and for immature hematopoietic stem cell subsets; belongs to the tetraspanin web involved in tumor progression and	lung cancers - expression level is correlated with the metastatic ability of carcinoma cells; Possib novels for leukemia diagnosis.
CD321	<mark>54252</mark> , 52647	Epi cells, endo cells, lk, plt, eryth, lung, placenta, kidney	metastasis  Tight junction formation; regulation of leukocyte migration; epithelial barrier maintenance; platelet activation	
CD322	33425, <mark>33423</mark> , 46950	HUVEC, HEV in tonsils and heart	Tight junction formation; cell polarization; lymphocyte homing	Mono; endo cells
CD324	48194, 48195, 48196, 1416	Epi cells, keratinocytes, trophoblasts, plt	Cell-cell and cell-matrix adhesion; tumor suppression; cell growth and	
CD326	49295, 8666,	Epi cells, some carcinomas	differentiation  Binds LAIR-1 and 2 to inhibit cellular	Epi cells
CD328	49297, 8667 38573	NK cells, T cell subset,	activation and inflammation  Negative regulation of NK cell and T cell activity	Mono
CD329	38578	mono, gran  Mono, neu, subset of NK cells, B cells, T cells,	Negative regulation of immune response	Mono; gran
 CD331	829	hepatocytes Widely expressed in adult	Limb induction; cardioskeletal,	Stromal cells
 CD332	10648	and fetal tissues. Over expression in breast cancer Brain, liver, prostate,	cardiomyocyte and liver development  Limb induction; craniofacial	Stromal cells
CD332	10040	kidney, lung and spinal cord	development	Scrottar cens
CD333	10651	Brain, kidney, brain. Testis in adult. Small intestine	Limb induction; craniofacial development	Stromal cells
CD334	49307, <mark>49306</mark> ,	in fetus Liver, kidney, lung,	Endoderm and skeletal muscle	Stromal cells
CD335	5481	pancreatic cells. lph and mac NK cells	development; cancer metastasis  NK cell activation	
CD336	48562, 48561, 25911	Activated NK cells	NK cell activation	
CD337	48565, <mark>48564</mark> , 26250	NK cells	NK cell activation	
CD339	7771	Widely expressed in adult and fetal cells	Cell fate determination in hematopoiesis; cardiovascular	Stromal cells
CD340	48180, 48181, 48188, <mark>31890</mark> , 2428		development Essential component of a neuregulin- receptor complex	Cancers - detectable in a proportion of breast and other adenocarconomas, as well as transitional cell carcinomas. In breast cancer, expression determined by immunohistochemistry is
CD344	12992	Ubiquitous expression. Highly expressed in adult heart, skeletal muscle, ovary, fetal kidney	Frizzled 4: Receptor for Wnt proteins; may be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis; plays a critical role in retinal angiogenesis	associated with poor prognosis
CD349	13000	Highly expressed in brain, testis, eye, skeletal muscle, kidney	Frizzled 9: Receptor for Wnt proteins; may be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis	
CD350	12991	Placenta, fetal kidney, fetal lung, fetal brain	and/or in differentiated tissues Frizzled 10: Receptor for Wnt proteins; may be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues	;
Key to o	abbreviati	ions Text	Abbreviation	Text
Baso		Basophils Endothelial cells	Lph	Lymphocytes Macrophages
Endo Eos		Endothelial cells Eosinophils	Mac MegaK	Macrophages Megakaryocytes
Epi Eryth		Epithelial cells Erythrocytes	Mono Neu	Monocytes Neutrophils
ESC		Embryonic stem cells	NK	Natural killer cells
FDC Fib		Follicular dendritic cells Fibroblasts	Plt Tc	Platelets Cytotoxic T Cells
Gran HSC Lk		Granulocytes Hematopoietic stem cells Leukocytes	TH Thy	Helper T Cells Thymocytes
	conjugatio	,	Key to research to	ppics
	,			Topic
		Conjugation	Text colour	Торіс
Key to d	, , ,	Allophycocyanin	lext colour	Immunology
Key to d		Allophycocyanin FITC	lext colour	·
Key to d		Allophycocyanin	lext colour	Immunology Stem Cells