CD Antigen Expression

serotec
Immunological Excellence

MYELOID

LYMPHOID

Markers expressed by the majority of Leucocytes

CD11a CD18 CD29 CD44 CD45 CD46 CD47 CD47R CD50 CD53 CD54 CD55 CD58 CD59 CD62L CD82 CD100 CD118 CD120a CD120b CD126 CD130 CD132 CD148 CD156b CDw217 CD220 CD221 CD222 CD225 CD224 CD230 CD232

Pluripotent Stem Cell
CD90* CD110* CD117 CD123 CD135* CD243

CFU-GEMM Myeloid Stem Cell
CD33 CD34 CD110* CD111* CD112* CD117 CD123 CDw131 CD133* CD173* CD174* CD176 CD227* CD228

BFU-E
CD33 CD34 CDw123 CDw131

CFU-GM Myelomonocytic Stem Cell
CD13 CD33 CD34 CD111 CD112 CD115 CD116 CDw123 CDw131

CFU-E
CD36 CDw123 CDw131 CD175s

CFU-Meg
CD34 CDw123 CD110

CFU-M
CD13 CD15 CD33 CD111 CD112 CD115 CD116 CDw123 CDw131

CFU-G
CD13 CD15 CD33 CD111 CD112 CD116 CDw123 CDw131

CFU-Eo
CD13 CD33 CD34 CD116 CDw123 CDw131

CFU-Bas
CD34 CDw123

Reticulocyte

Megakaryocyte
CD41 CD42a CD42b CD42c CD42d CD49f (CD51) CD61 CD110 CDw123 CDw131 CD203c

Promonocyte
CD13 CD14 (CD15*) CD33 CD111 CD112 CD115 CD116 CDw123 CD131

Myelocyte
CD13 (CD15*) (CD33) CD111 CD112 CD114 CD116 CDw123 CDw131

Myelocyte
CD11b CD13 (CD15*) CD32 CD33 CD35 CD116 CD114 CDw131

Myelocyte
(CD15*) CD33 CDw123 CD114

Lymphoid Stem Cell
CD10 CD34 CD38 CD90* CD117 CD124 CD127 CD228

Pro-B Cell
CD19 CD22 CD24 CD34 CD38 CD72 CD79a CD79b CD124 CD127 CD179a CD179b

Pre-Pre-B Cell
CD10 CD19 CD20 CD22 CD24 CD34 CD72 CD79a CD79b CD124 CD179a CD179b

Pre-B Cell
CD9 CD10 CD19 CD20 CD22 CD24 CD38 CD40 CD72 CD74 CD79a CD79b CD124 CD179a CD179b

Early B Cell
CD19 CD20 CD22 CD24 CD37 (CD39) CD40 CD72 CD74 CD79a CD79b CD124

Subcortical Thymocyte
CD2 CD4 CD5 CD7 CD8 CD38 CD200

THYMUS

Cortical Thymocyte
CD1a CD1b CD1c CD2 CD3 CD4 CD5 CD7 CD8 CD38 CD52 CD165 CD200

Medullary Thymocyte
CD4+

Medullary Thymocyte
CD8+

CD2 CD3 CD5 CD6 CD7 CD27 CD28 (CD38) CD150 CD155 CD48 (CD49d) (CD49f) CD52 CD69 CD99 CD121a CD127 CD165 CD168* CD200

BLOOD

Erythrocyte
CD35 CD44 CD55 CD59 CD147 CD173 CD233 CD234 CD235a CD235b CD236 CD236R CD238 CD239 CD240CE CD240D CD241 CD242

Platelets
CD9 CDw17 CD23 CD31 CD36 CD41 CD42a CD42b CD42c CD42d CD49b CD49f (CD51) CD60a CD61 CD84 CD92 CD109 (CD110) CD147 CD151 CD173 CD226

Monocyte
(CD4) CD9 CD11b CD11c CDw12 CD13 CD14 CD15 CDw17 (CD31) CD32 CD33 CD35 CD36 CD38 (CD40) CD43 (CD45RO) (CD45RA) (CD45RB) CD49b CD49e CD49f CD63 CD64 CD65s (CD74) CD84 CD85 CD86 CD87 CD89 CD91 CDw92 CD93 CD98 CD101 CD102 CD111 CD112 CD115 CD116 CD119 CDw123 CD127 CDw128 CDw131 CD142* CD147 CD155 CD156a CD157 CD162 CD163 CD164 CD168 (CD170) CD171 CD172a CD180 CD184 CD195 CD206 CD213a1 CD213a2 CDw210 CD226

Neutrophil
CD10 CD15s CD16b CD17 CD24 CD32 CD35 CD43 CD65 CD65s CD66a CD66d CD89 CD92 CD93 CD111 CD112 CD114 CD116 CDw123 CDw128 CDw131 CD157 CD170 CD177*

Eosinophil
CD9 CD11b CD15 CD24 CD32 CD35 CD43 CD114 CD116 CDw125 CDw131

Basophil
CD9 CD17 CD25 CD33 CD38 CD43 CDw131 CD154 CDw125 CDw128 CD203c

Granulocytes
CD11b CD11c CDw12 CD13 (CD14*) CD31 CD43 CD45RO CD52* (CD63) CD66b CD66c CD87 CD88 CD114 (CD98) CDw101 CD123 CD156a

Activated Platelets
+ CD62P CD63 CD107a CD107b

Activated Neutrophil
+ CD64 CD66

Activated Eosinophil
+ CD23 CD64 CD66

Activated Basophil
+ CD64 CD66

Intermediate B Cell
CD19 CD20 CD21 CD22 CD24 CD32 CD35 CD37 CD40 CD48 CD52 CD72 CD74 CD75 CD75s CD79a CD79b (CD85) CD80* CD99 CD124 CDw210

LGL/Null Cell/NK Cell
(also found in tissues)
CD2* CD7* CD8* CD11b CD11c CD16 CD35* CD48 CD56 CD57 CD69 CD94 CD122 CD158a CD158b CD159 CD160* CD161 CD162R* CDw210 CD226 CD244 CD247

Suppressor/Inducer T Lymphocyte
CD4+ CD45RA+

Cytotoxic/Suppressor T Lymphocyte
CD8+

CD2 CD3 CD5 CD6* CD7 CD11c* (CD27*) CD28* CD31 CD35 (CD37) CD43 CD45RB* CD45RC* CD48 CD49d (CD49f) CD57* CD60a* CD60b CD60c (CD70) CD73* CD75s* (CD75*) CD94* CD98 CD99 CD101* CD102 CD103* CD121a CD122* CD124 CDw128* CDw137* CD147* CD161 CD150 CD158a* CD158b* CD160* CD164 CD171* CD172a* CD184* CD195* CDw197* CDw210 CD226 (CD229) CD244* CD245* CD247

Mature B Cell
CD5* CD19 CD20 CD21 CD22 CD24 CD32 CD35 (CD39) CD40 CD48 CD49b CD49c CD49d CD52 CD72 CD74 CD75* CD75s* CD78 CD79a CD79b CD80* CD84 (CD85) (CD98) CD99 CD102 CD119 CDw121b CD124 CD171* CD180* CDw210 CD213a1 CD213a2 (CD229)

Activated B Cell
CD23 CD25 CD26 CD28 CD30 CD38 CD60b CD166 CD69 CD70 CD71 CD80 (CD83) CD86

Helper/Inducer T Lymphocyte
CD4+ CD45RO+ CDw197+

Activated T Cell
CD2R CD25 CD26 CD30 CD38 CD49b CD49e CD49f CD69 CD70 CD71 (CD83) CD87 CD96 CD108 CD109 CD134* CD146 CD152 CD153 CD154 CD166 CD178 CD183 CD212 CD223

TISSUE

Endothelial Cells
CD62E CD92 CD93 CD102 CD105 CD106 CD109 CD116 CD121a CD124 CD140b* CD141 CD142* CD143* CD144 CDw145 CD146 CD147 CD152 CD157 CD166 CD201* CD202b CD213a1 CD213a2

Macrophage

Activated Macrophage
CD23 CD25 CD69 CD105
+
CD11c CD14 CD16 CD26 CD31 CD32 CD36 CD45RO CD45RB CD63 CD68 CD71 CD74 CD87 CD88 CD101 CD119 CD121b CD155 CD156a CD169* CD170* CD204 CD206 CDw210

Dendritic Cells
CD85 CD180 CD187 CD205 CD206* CD207* CD208* CD209*

LYMPH NODE
(also found in bone marrow)

Immunoblast
CD10 CD19 CD20 CD22 CD24 CD37 (CD39) CD40 CD72 CD74 CD79a CD79b CD139

Lymphoplasmacytoid Cell
CD19 CD20 CD38 CD79a CD79b

Plasma Cell
CD38 CD79a CD126 CD138

KEY
* Subset expression
BFU-E Burst forming unit – Erythroid precursor
CD Strong expression
(CD) Weak expression
CFU Colony forming unit
CFU-GM Colony forming unit Granulocyte-monocyte common precursor
E Erythroid
Eo Eosinophil
G Granulocyte
M Monocyte
Meg Megakaryocyte
NK Natural Killer
LGL Large granular lymphocyte

Cluster Designation	Main Antigen Expression	Other names	Antigen Mol. Wt (kD)
CD1a	Cortical Thymocytes (stg), B Cell subset Dendritic Cells, Langerhans Cells		49,12
CD1b	Cortical Thymocytes (mod), B Cell subset Dendritic Cells, Langerhans Cells		45,12
CD1c	Cortical Thymocytes (weak), B Cell subset Dendritic Cells, Langerhans Cells		43,12
CD2	T Cells, NK Cells	LFA-2, E-Rosette Receptor	50
CD2R	Activated T Cells		50
CD3	T Cells		16,20,25–28
CD4	Helper-Inducer T Cells, Monocytes, Macrophages		56
CD5	T Cells, B Cell Subset		67
CD6	T Cells, B Cell Subset		105
CD7	T Cells		40
CD8	Cytotoxic/Suppressor T Cells, NK Cells		32–34
CD9	Platelets, Monocytes, Pre B Cells		24
CD10	Pre B Cells, Granulocytes	CALLA	100
CD11a	Leucocytes	LFA-1, αL Intergrin	180
CD11b	Granulocytes, Monocytes, NK Cells	MAC-1, αM Intergrin, CR3	170
CD11c	Granulocytes, Monocytes, NK Cells, T Cell Subset, B Cell Subset	αX Intergrin	150
CDw12	Granulocytes, Monocytes		90–120
CD13	Granulocytes, Monocytes	Aminopeptidase N	130
CD14	Monocytes		55
CD15	Granulocytes, Monocytes	Lewis X	CHO
CD15s	Neutrophils	Sialyl Lewis X	CHO
CD15u	Myeloid subset	Sulfated Lewis X	CHO
CD16a	NK Cells, Macrophages	FcRIII A	50–65
CD16b	Granulocytes	FcRIII B	48
CDw17	Granulocytes, Monocytes, Platelets	Lactosylceramide	–
CD18	Leucocytes (Platelets Negative)	β2 Integrin	95
CD19	B Cells		90
CD20	B Cells		33,35,37
CD21	B Cells Subset, Follicular Dendritic Cells	CR2	145
CD22	B Cells		140
CD23	B Cell Subset, Eosinophils, Platelets	FceRII	50–45
CD24	B Cells, Granulocytes		41/38
CD25	Activated T Cells	IL-2Rα Chain	55
CD26	T Cell Subset, Macrophages		110
CD27	T Cell Subset		55
CD28	T Cell Subset		44
CD29	Leucocytes	β1 Integrin	130
CD30	Activated T and B Cells, Reed Sternberg Cells	Ki-I	105
CD31	Platelets, Monocytes, Granulocytes, B Cells	PECAM-1, GPIIa	140
CD32	Monocytes, Neutrophils, B Cells, Eosinophils	FcRII	40
CD33	Myeloid Progenitor Cells, Monocytes		67
CD34	Haematopoietic Progenitor Cells		105–120
CD35	Monocytes, B Cells, Granulocytes	CR1	160,190,220,250
CD36	Monocytes, Platelets	GPIV (IIIb)	88
CD37	B Cells		52–40
CD38	Activated T Cells, Plasma Cells		45
CD39	B Cells, Monocytes		100–70
CD40	B Cells, Monocytes, Carcinoma Cells		48/44
CD41	Platelets, Megakaryocytes	GPIIb/IIa, αIIb Integrin	120
CD42a	Platelets, Megakaryocytes	GPIX	23
CD42b	Platelets, Megakaryocytes	GPIB-α	135,23
CD42c	Platelets, Megakaryocytes	GPIB-β	22
CD42d	Platelets, Megakaryocytes	GPV	85
CD43	T Cells, Granulocytes, Monocytes	Leukosialin	90–100
CD44	Leucocytes, Erythrocytes	H-CAM, Pgp-1	8–90
CD44R	(Varied-dependent upon Exon Splicing)		
CD45	Leucocytes	Leucocyte Common Antigen	180,190,205,220
CD45RA	B Cells, T Cell Subset, Monocytes		220,205
CD45RB	B Cells, T Cell Subset, Monocytes		190,205,220
CD45RC	B Cells, T Cell Subset		190,205,220
CD45RO	B Cells, T Cell Subset, Monocytes		180
CD46	Ubiquitous (Erythrocytes Negative)	Membrane Cofactor Protein	66,56
CD47	Ubiquitous		47–52
CD47R	Broad		47–52kD
CD48	Leucocytes		43
CD49a	Activated T Cells	VLA-1, α1 Integrin	210
CD49b	B Cells, Monocytes, Platelets	VLA-2, α2 Integrin	160
CD49c	B Cells	VLA-3, α3 Integrin	125
CD49d	Lymphocytes, Monocytes, Eosinophils	VLA-4, α4 Integrin	150,80,70
CD49e	T Cell Subset, Monocytes, Platelets	VLA-5, α5 Integrin	132/25
CD49f	T Cell Subset, Monocytes	VLA-6, α6 Integrin	120/25
CD50	Leucocytes	ICAM-3	124

Cluster Designation	Main Antigen Expression	Other names	Antigen Mol. Wt (kD)
CD51	Platelets	aV Integrin	125/25
CD51/61	Platelets, Osteoclasts, Endothelial Cells		complex
CD52	Leucocytes	CAMPATH-1	21–28
CD53	Leucocytes		32-40
CD54	Endothelial Cells, Various Activated Cells	ICAM-1	90
CD55	Broad	Decay Accelerating Factor	75
CD56	NK Cells	N-CAM	220/135
CD57	NK Cells, T Cell Subset	HNK-1	110
CD58	Broad	LFA-3	65–70
CD59	Broad	Protectin, Homologous Restriction Factor	18–20
CD60a	T cell subset, platelets	GD3	CHO
CD60b	T cell subset, activated B cells	9-O-sialyl GD3	CHO
CD60c	T cell subset	7-O-sialyl GD3	CHO
CD61	Platelets, Megakaryocytes	β3 Integrin, GPIIIa	110
CD62E	Endothelial Cells	E-Selectin, ELAM-1	140
CD62L	Lymphocytes, Monocytes, NK Cells	L-Selectin, LECAM-1	150
CD62P	Activated Platelets, Endothelial Cells	P-Selectin, LECAM-3	75–80
CD63	Activated Platelets, Monocytes		53
CD64	Monocytes	FcRI	75
CD65	Neutrophils		
CD65s	Neutrophils, Monocytes		
CD66a	Neutrophils	Biliary Glycoprotein	160–180
CD66b	Granulocytes	CGM6	95–100
CD66c	Neutrophils, Colon Carcinoma	NCA	90
CD66d	Neutrophils	CGM1	30
CD66e	Colon Epithelia	CEA	180–200
CD66f		Pregnancy Specific Glycoprotein	
CD67	(Re-assigned to CD66b)		
CD68	Monocytes, Macrophages		110
CD69	Activated T and B Cells, NK Cells	Activation Inducer Molecule	34/28
CD70	Activated T and B Cells, Reed-Sternberg Cells		75,95,170
CD71	Proliferating Cells	Transferrin Receptor	95
CD72	B Cells		43/39
CD73	B & T Cell Subset	ECTO-5' Nucleotidase	69
CD74	B Cells, Monocytes	Invariant Chain	41,35,33
CD75	B cell subset, epithelial	Lactosamines	CHO
CD75s	B cell subset	alpha-2, 6-sialylated lactosamines	CHO
CD77	Activated B Cells, Endothelial Cells		
CD79a	B Cells	MB-1	33,40
CD79b	B Cells	B29	33,40
CD80	Activated B Cells	B7-1	60
CD81	B Cells, T Cells, Neutrophils	TAPA-1	22
CD82	Leucocytes, Platelets		50-53
CD83	Dendritic Cells, Activated Lymphocytes	HB15	43
CDw84	Monocytes, Platelets, B Cells		73
CD85	Dendritic cells, monocytes, B cells	ILT/LIR family (full details to be published)	110
CD86	Monocytes, Activated B Cells	B7-2	80
CD87	Granulocytes, Monocytes, Activated T Cells	UPA Receptor	50–65
CD88	Granulocytes	C5a Receptor	42
CD89	Neutrophils, Monocytes	Fcα Receptor	55-70
CD90	Progenitor Cell Subset, Thymic Stromal Cells	THY-1	18
CD91	Monocytes	α2 Macroglobulin Receptor	600
CD92	Neutrophils, monocytes, platelets, endothelial cells		70
CD93	Neutrophils, Monocytes, Endothelial Cells		120
CD94	NK Cells, T Cell Subset		30
CD95	Apoptotic Cells	FAS	42
CD96	Activated T Cells	Tactile	160
CD97	Activated T Cells	CD55 Ligand	74,80,89
CD98	Monocytes, T Cells, B Cells	4F2	80,40
CD99	Lymphocytes, Thymocytes		32
CD99R	T Cells, NK Cells, Myeloid Cells		32
CD100	Broad		150
CD101	Granulocytes, Monocytes, Activated T Cells		140
CD102	Lymphocytes, Monocytes	ICAM-2 Vascular Endothelial Cells	60
CD103	Intra Epithelial Lymphocytes	HML-1, αE Integrin	150,25
CD104	Epithelial, Schwann Cells	β4 Integrin	220
CD105	Endothelial Cells	Endoglin	95
CD106	Activated Endothelial Cells	VCAM-1	100–110
CD107a	Activated Platelets	LAMP-1	110
CD107b	Activated Platelets	LAMP-2	120
CD108	Activated splenic T cells		80
CD109	Activated T Cells, Platelets, Endothelial Cells	Platelet Activation Factor	170/150
CD110	Stem cell subset, Megakaryocytes, platelets (v. weak)	Thrombopoietin receptor, Mpl	82–84
CD111	Stem cell subset, macrophages, neutrophils	PRR/Nectin-1	64–72

Cluster Designation	Main Antigen Expression	Other names	Antigen Mol. Wt (kD)
CD112	Monocytes, neutrophils, stem cell subset	PRR2/Nectin-2	64–72
CD113	Not Assigned		
CD114	Granulocytes, Monocytes	G-CSF Receptor	95,139
CD115	Monocytes, Macrophages	M-CSF Receptor	150
CD116	Monocytes, Neutrophils, Eosinophils	GM-CSF Receptor a Chain Fibroblasts	60
CD117	Progenitor Cells	SCF-Receptor, c-kit	145
CD118	Broad	IFN α, β Receptor	90
CD119	Monocytes, B Cells, Epithelial Cells	IFN γ Receptor	90
CD120a	Monocytes, Granulocytes	TNF Receptor, Type 1	55
CD120b	Monocytes, Granulocytes Activated Lymphocytes	TNF Receptor, Type 2	75
CD121a	T Cells, Fibroblasts, Endothelial Cells	IL-1 Receptor, Type 1	80
CDw121b	B Cells, Monocytes, Macrophages	IL-1 Receptor, Type 2	68
CD122	T Cell Subset, NK Cells	IL-2 Receptor β Chain	75
CDw123	Progenitor Cells, Granulocytes Monocytes, Megakaryocytes	IL-3 Receptor α Chain	70
CD124	B Cells, T Cells, Progenitor Cells	IL-4/IL-13 Receptor	140
CDw125	Eosinophils, Basophils	IL-5 Receptor α Chain	60
CD126	Plasma Cells, Activated B Cells	IL-6 Receptor α Chain	80
CD127	Early B Cells, T Cells Progenitor Cells, Monocytes	IL-7 Receptor α Chain	65–75
CDw128	Neutrophils, Monocytes, Basophils, T Cell Subset	IL-8 Receptor	58–67
CD129	Not Assigned		
CD130	Plasma Cells, Activated B Cells	gp130 Receptor Subunit for IL-6, IL-11, LIF, OSM, LNTF, CT-1	130
CDw131	Myeloid Cells	Common β Chain for IL-3, IL-5, GM-CSF Receptor	120
CD132	Broad	Common γ Chain for IL-2, IL-4, IL-7, IL-9, IL-15 Receptors	64
CD133	Stem cell subset	AC-133	120
CD134	Activated T Cell Subset	OX40	48–50
CD135	Progenitor Cell Subset	Flt3/Flk2	130–150
CDw136		Macrophage Stimulating Protein Receptor	180
CDw137	T Cell Subset	4-1BB	30
CD138	Plasma Cells, Epithelial Cells	SYNDECAN-1	20
CD139	Germinal Centre B Cells		209,228
CD140a	(Undetectable on most normal Cells)	PDGF Receptor α	180
CD140b	Endothelial Cell Subset, Stromal Cells	PDGF Receptor β	180
CD141	Endothelial Cells	Thrombomodulin	100
CD142	Activated Monocytes and Endothelial Cells	Tissue Factor	45
CD143	Endothelial Cell Subset	Angiotensin Converting Enzyme	170
CD144	Endothelial Cells	VE-CADHERIN	135
CDw145	Endothelial Cells, some Stromal Cells		25,90,110
CD146	Endothelial Cells, Activated T Cells	MUC18/S-endo	118
CD147	Endothelial Cells, Monocytes, T Cell Subset, Platelets, Erythrocytes	Neurothelin/Basigin	50–60
CD148	Haematopoietic Cells	HPTP-ETA/DEP-1	
CD150	T cell subset, B cell subset, thymocytes	SLAM	70
CD151	Platelets, Endothelial Cells	PETA-3	27
CD152	Activated T Cells	CTLA-4	44
CD153	Activated T Cells	CD30 Ligand	40
CD154	Activated T Cells, Mast Cells, Basophils	CD40 Ligand	33
CD155	Monocytes, Macrophages, Thymocytes	Poliovirus Receptor	80–90
CD156a	Monocytes, macrophages, granulocytes	ADAM8	60
CD156b	Broad	TACE/ADAM17	85
CD157	Monocytes, Neutrophils, Endothelial Cells	BST-1	42–45
CD158	T cell subset, NK cell subset	KIR family (full nomenclature to be published)	
CD158a	NK Cells, T Cell Subset	p58.1, P50.1	50,58
CD158b	NK Cells, T Cell Subset	p58.2, p50-2	50,58
CD159	Not Assigned		
CD159a	NK cells	NKG2a	43
CD160	T cell subset, NK cell subset	By55	26
CD161	NK Cells, T Cell Subset	NKR-P1	60
CD162	T Cells, Monocytes, Granulocytes, B Cell Subset	PSGL-1	110
CD162R	NK cell subset	PEN5	CHO
CD163	Monocytes	KiM4	130
CD164	T Cells, Monocytes, Granulocytes, B Cell Subset, Progenitor Cells	MGC-24	80
CD165	Thymocytes, Thymic Epithelial Cells	AD2/gp37	37
CD166	Activated Lymphocytes, Endothelial Cells, Fibroblasts	ALCAM, CD6 Ligand	100
NEW ADDITIONS	**from the 7th International Workshop at Harrogate, June 2000**		
CD167a	Epithelial cells, myoblasts	Discoidin domain receptor, DDR1	120
CD168	Thymocyte subset, T cell subset, monocytes	RHAMM	84–88
CD169	Macrophage subset	Sialoadhesin	185
CD170	Macrophage subset, neutrophils	Siglec-5	140
CD171	Monocytes, T cell subset, B cells	L1	200

Cluster Designation	Main Antigen Expression	Other names	Antigen Mol. Wt (kD)
CD172a	Monocytes, T cell subset, stem cells	SIRP alpha	110
CD173	Red cells, stem cell subset, platelets	Blood group H type 2	CHO
CD174	Stem cell subset, epithelial cells	Lewis Y	CHO
CD175	Stem cell subset	TN	CHO
CD175s	Erythroblasts	Sialyl-Tn	CHO
CD176	Stem cell subset	Thomson-Friedrenreich antigen	CHO
CD177	Neutrophil subset	NB1	56–62
CD178	Activated T cells	Fas ligand	38–42
CD179a	Pro B cells, pre B cells	V pre beta	16
CD179b	Pro B cells, pre B cells	Lambda 5	22
CD180	B cell subset, monocytes, dendritic cells	Rp105/Bgp 95	95–105
CD183	Activated T cells, activated NK cells	CXCR3	40
CD184	T cell subset, B cells, monocytes, Denritic cells, endothelial cells	CXCR4	45
CD195	Monocytes, T cell subset	CCR5	45
CDw197	T cell subset	CCR7	45
CD200	Thymocytes, B cells, endothelium, activated T cells	OX-2	45–50
CD201	Endothelial cell subset	Endothelial cell Protein C receptor (EPCR)	50
CD202b	Endothelial cells, stem cells	Tie/Tek	150
CD203c	Basophils, megakaryocytes	NPP3	130–150
CD204	Macrophages	Macrophage scavenger receptor	220
CD205	Dendritic cells, thymic epithelium	DEC-205	205
CD206	Dendritic cell subset, macrophages, monocytes	Macrophage mannose receptor	180
CD207	Immature langerhans cells	Langerin	40
CD208	Interdigitating dendritic cells	DC-LAMP	70–90
CD209	Dendritic cell subset	DC-SIGN	44
CDw210	T cells, B cells, NK cells, monocytes, macrophages	IL-10R	90–110
CD212	Activated T cells, activated NK cells	IL-12Rbeta1	100
CD213a1	B cells, monocytes, fibroblasts, endothelial cells	IL-13Ralpha1	65
CD213a2	B cells, monocytes	IL-13Ralpha2	65
CDw217	Broad	IL-17R	120
CD220	Broad	Insulin receptor	140 + 70
CD221	Broad	IGF-1 receptor	140 + 70
CD222	Broad	IGF-2 receptor/mannose-6-phosphate receptor	250
CD223	Activated T cells, activated NK cells	LAG-3	70
CD224	Leucocytes, stem cells	Gamma glutamyl transferase (GGT)	27, 68
CD225	Broad	Leu-13	17
CD226	T cells, NK cells, monocytes, platelets	DNAM-1	65
CD227	Stem cell subset, epithelial cells	MUC-1	300
CD228	Stem cells, melanoma cells	Melanotransferrin	80–95
CD229	T cells, B cells	Ly-9	95, 110
CD230	Broad	Prion protein	35
CD231	T leukaemia, neuroblastoma	TALLA-1	30–45
CD232	Broad	VESPR (Plexin C1)	200
CD233	Red cells	Band 3	90
CD234	Red cells	Duffy	35–45
CD235a	Red cells	Glycophorin A	36
CD235b	Red cells	Glycophorin B	20
CD236	Stem cell subset, Red cells	Glycophorin C/D	32/23
CD236R	Stem cell subset, Red cells	Glycorphorin C	32
CD238	Stem cell subset, Red cells	Kell	93
CD239	Stem cell subset, Red cells	B-CAM, Lutheran	78–85
CD240CE	Red cells	Rhesus 30 CE	30–32
CD240D	Red cells	Rhesus 30 D	30–32
CD241	Red cells	Rhesus 50 glycoprotein	50
CD242	Red cells	ICAM-4	42
CD243	Stem cells	MDR-1	180
CD244	NK cells, T cell subset	2B4	70
CD245	T cell subset	p220/240	220–240
CD246	Anaplastic T cell leukaemia	Anaplastic lymphoma kinase	80
CD247	T cells, NK cells	TCR zeta chain	16

KEY
T Cells, NK Cells, Dendritic, Myeloid, Non-lineage, Endothelial, Carbohydrate, Not Assigned, B Cells, Adhesion, Red Cell, Cytokine Receptor, Platelets, Stem Cells

NOTES

Antigen Expression
This table provides only brief data regarding the cellular distribution of the various CD markers. In many cases antigens are expressed by small subsets of other leucocytes, or by some other tissues within the body.

Molecular weight
Where known, molecular weights are shown for reducing conditions.

CHO = carbohydrate epitope

Further details
Prior to the publication of the workshop proceedings further data may be available via the internet at the HDLA home page (http://gryphon.jr2.ox.ac.uk/).

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