UPDATE

CD ANTIGENS 1993

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The results of the 5th International Workshop on Human Leukocyte Differentiation Antigens were presented on November 3 through 7, 1993 at a conference held in Boston. Those present at this meeting represent the efforts of more than 500 laboratories worldwide, who have joined together over a two-year period to analyze 1450 antibodies and characterize over 150 molecules. Blind panels for all mAbs, including every CD, every known candidate for CD status, and all mAbs of undefined specificity were analyzed by flow cytometry. Other dedicated laboratories undertook serologic, molecular, biochemical, and histochemical characterization of the mAbs and the structures they defined. The results obtained by all groups showed almost perfect concordance. Detailed results of these studies will be published separately (1). In addition, a Leukocyte Differentiation Antigen Database (LDAD) has been developed to 1) provide identifying information on all molecules and mAbs stud-

ied in the workshop; and 2) display and analyze quantitative expression of each molecule on more than 80 cell types[1]. Based on these findings, the workshop organizers are pleased to recommend the adoption of 48 new CD clusters and subclusters and the redefinition of 14 previously established clusters. The following table summarizes the additions and changes made to the existing CD nomenclature.

References

1. Schlossman, S. F., L. Boumsell, W. Gilks, J. M. Harlan, T. Kishimoto, C. Morimoto, J. Ritz, S. Shaw, R. L. Silverstein, T. A. Springer, T. F. Tedder, and R. F. Todd, eds. 1994. In press. *Leucocyte Typing V: White Cell Differentiation Antigens.* Oxford University Press, Oxford.

[1] The LDAD program runs on IBM PCs and via emulation on Macintosh. It may be downloaded freely by anonymous ftp from balrog.nci.nih.gov (156.40.182.2) or purchased on disk (inquire by FAX (301) 480–2052).

Table I.   CD antigens 1993

CD Designation	Common Name	Workshop Section	MW Reduced
CD15s	sLe^x, Sialyl Lewis^x	ADHESION	
CD16	FcR IIIA/FcR IIIB	MYELOID	50–65
CD16b	FcR IIIB	MYELOID	48
CD32	Previously CDw32, FcRII	MYELOID	40
CD42a	GPIX	PLATELETS	23
CD42b	GPIB, α	PLATELETS	135, 23
CD42c	GP1B-β	PLATELETS	22
CD42d	GPV	PLATELETS	85
CD44	Pgp-1	ADHESION	80–90
CD44R	Restricted epitope on CD44	ADHESION	
CD49a	VLA-1, α1integrin chain	ADHESION	210
CD49b	VLA-2, α2 integrin chain	ADHESION	160
CD49c	VLA-3, α3 integrin chain	ADHESION	125
CD49d	VLA-4, α4 integrin chain	ADHESION	150, 80, 70
CD49e	VLA-5, α5 integrin chain	ADHESION	135, 25
CD49f	VLA-6, α6 integrin chain	ADHESION	120, 25
CD50	ICAM-3	ADHESION	124
CD51/CD61	Complex dependent epitope	ADHESION	
CD52	Campath-1	BLIND	21–28
CD62E	E-selectin, ELAM-1	ADHESION	115
CD62L	L-selectin, LAM-1, TQ-1	ADHESION	75–80

Table I. *Continued*

CD Designation	Common Name	Workshop Section	MW Reduced
CD62P	P-selectin, GMP-140, PADGEM	ADHESION	150
CD66a	BGP	MYELOID	180–200
CD66b	CD67, p100, CGM6	MYELOID	95–100
CD66c	NCA	MYELOID	90–95
CD66d	CGM1	MYELOID	30
CD66e	CEA, carcinoembryonic antigen	MYELOID	180–200
CD67	Now CD66b		
CD70	CD27-ligand	ACTIVATION	55, 75, 95, 110, 170
CDw76	Previously CD76	B CELL	NA
CD79a	mb-1, Igα	B CELL	33, 40
CD79b	B29, Igβ	B CELL	33, 40
CD80	B7, BB1	B CELL	60
CD81	TAPA-1	B CELL	22
CD 82	R2, IA4, 4F9	B CELL	50–53
CD83	HB15	B CELL	43
CDw84		B CELL	73
CD85	VMP-55, GH1/75	B CELL	120, 83
CD86	FUN-1, BU63	B CELL	80
CD87	UPA-R	MYELOID	50–65
CD88	C5aR	MYELOID	42
CD89	FcαR	MYELOID	55–75
CDw90	Thy-1	MYELOID	25–35
CD91	α^aM-R	MYELOID	600
CDw92		MYELOID	70
CD93		MYELOID	120
CD94	KP43	NK CELL	43
CD95	APO-1, FAS	ACTIVATION	42
CD96	TACTILE	ACTIVATION	160
CD97		ACTIVATION	74, 80, 89
CD98	4F2, 2F3	T CELL	80, 40
CD99	E2, MIC2	T CELL	32
CD99R	CD99 mAb restricted	T CELL	32
CD100	BB18, A8	T CELL	150
CDw101	BB27, BA27	T CELL	140
CD102	ICAM-2	ADHESION	60
CD103	HML-1	ADHESION	150, 25
CD104	β4 integrin chain	ADHESION	220
CD105	Endoglin	ENDOTHELIAL	95
CD106	VCAM-1, INCAM-110	ENDOTHELIAL	100, 110
CD107a	LAMP-1	PLATELET	110
CD107b	LAMP-2	PLATELET	120
CDw108		ADHESION	80
CDw109	8A3, 7D1	ENDOTHELIAL	170/150
CD115	CSF-1R; M-CSFR	MYELOID	150
CDw116	HGM-CSFR, GM-CSFR	CYTOKINE	75–85
CD117	SCFR, cKIT	CYTOKINE	145
CDw119	IFNγR	CYTOKINE	90
CD120a	TNFR; 55kD	CYTOKINE	55
CD120b	TNFR; 75KD	CYTOKINE	75
CDw121a	IL-1R; Type 1	CYTOKINE	80
CDw121b	IL-1R; Type 2	CYTOKINE	68
CD122	IL-2R; 75KD, IL-2Rβ	CYTOKINE	75
CDw124	IL-4R	CYTOKINE	140
CD126	IL-6R	CYTOKINE	80
CDw127	IL-7R	CYTOKINE	75
CDw128	IL-8R	CYTOKINE	58–67
CDw130	IL-6R-gp130SIG	CYTOKINE	130