

Antibody					Specificity			Companies with License	References
Name	Clone	Species	Isotype	Function	Species	Molecule	CD		
CBR/49d.1	CBR/49d.1(9F10)	Mouse	IgG1; kappa		Human	Integrin alpha4, VLA-4	CD49D	BD Biosciences Biolegend eBiosciences Santa Cruz Tonbo Biotech	Vonderheide, R. H., Tedder, T. F., Springer, T. A., and Staunton, D. E. (1994) Residues within a conserved amino acid motif of domains 1 and 4 of VCAM-1 are required for binding to VLA-4. <i>J. Cell Biol.</i> <b>125</b> , 215-222
CBRM1/5	CBR-RM1/5	Mouse	IgG1	Blocking	Human	Activated Mac-1	CD11b	Biolegend eBiosciences Santa Cruz BD Biosciences EXBIO Praha	Diamond, M. S., and Springer, T. A. (1993) A subpopulation of Mac-1 (CD11b/CD18) molecules mediates neutrophil adhesion to ICAM-1 and fibrinogen. <i>J. Cell Biol.</i> <b>120</b> , 545-556
CBRIC2/2	CBR-IC2/2	Mouse	IgG2a		Human	ICAM-2	CD102	Biolegend Santa Cruz eBiosciences BD Biosciences MorphoSys Millipore	de Fougerolles, A. R., Stacker, S. A., Schwarting, R., and Springer, T. A. (1991) Characterization of ICAM-2 and evidence for a third counter-receptor for LFA-1. <i>J. Exp. Med.</i> <b>174</b> , 253-267
CBRIC3/1	CBR-IC3/1	Mouse	IgG1		Human	ICAM-3	CD50	Biolegend Millipore	de Fougerolles, A. R., and Springer, T. A. (1992) Intracellular adhesion molecule-3 and its binding ligands. Center For Blood Research, WO/1992/022323
LM2/1	LM2/1.6.11	Mouse	IgG1		Human	integrin alphaM, Mac-1	CD11b	Biolegend Santa Cruz	Miller, L. J., Schwarting, R., and Springer, T. A. (1986) Regulated expression of the Mac-1, LFA-1, p150,95 glycoprotein family during leukocyte differentiation. <i>J. Immunol.</i> <b>137</b> , 2891-2900
M1/22	M1/22.25.8.HL	Rat	IgM		Mouse, Sheep	Forssmann Antigen		ATCC TIB-121	Springer, T. A., Galfre, G., Secher, D. S., and Milstein, C. (1978) Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens. <i>Eur. J. Immunol.</i> <b>8</b> , 539-551
M1/42	M1/42.3.9.8.HLK	Rat	IgG2a		Mouse	H-2		Biolegend	Springer, T. A. (1980) Cell-surface differentiation in the mouse. Characterization of "jumping" and "lineage" antigens using xenogeneic rat monoclonal antibodies. in <i>Monoclonal antibodies</i> (Kennett, R. H., McKearn, T. J., and Bechtol, K. B. eds.), Plenum Press, New York. pp 185-217
M1/69	M1/69.16.11.HL	Rat	IgG2b; kappa		Mouse	Heat stable antigen	CD24	Biolegend Santa Cruz eBiosciences BD Biosciences MorphoSys Miltenyi Biotec Tonbo Biotech Millipore	Springer, T. A., Galfre, G., Secher, D. S., and Milstein, C. (1978) Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens. <i>Eur. J. Immunol.</i> <b>8</b> , 539-551

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M1/70	M1/70.15.11.5.HL	Rat	IgG2b; kappa	Blocking	Mouse, Human	integrin alphaM, Mac-1	CD11b	ATCC TIB-128 Biolegend Santa Cruz eBiosciences Miltenyi Biotec EXBIO Praha Stem Cell Tech Life Tech Advanced Targeting Systems	Springer, T. A., Galfre, G., Secher, D. S., and Milstein, C. (1978) Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens. <i>Eur. J. Immunol.</i> <b>8</b> , 539-551
M1/75	M1/75.16.4.HLK	Rat	IgG2c		Mouse	Heat stable antigen		ATCC TIB-127	Springer, T. A., Galfre, G., Secher, D. S., and Milstein, C. (1978) Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens. <i>Eur. J. Immunol.</i> <b>8</b> , 539-551
M1/87	M1/87.27.7.HLK	Rat	IgM; kappa		Mouse, Sheep, Human	Forsman Antigen		Santa Cruz BD Biosciences	Springer, T. A., Galfre, G., Secher, D. S., and Milstein, C. (1978) Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens. <i>Eur. J. Immunol.</i> <b>8</b> , 539-551
M1/89.18	M1/89.18.7.HK	Rat	IgG2b		Mouse	common leukocyte antigen (200KD)	CD45	ATCC TIB-124	Springer, T. A., Galfre, G., Secher, D. S., and Milstein, C. (1978) Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens. <i>Eur. J. Immunol.</i> <b>8</b> , 539-551
M1/9.3	M1/9.3.4.HL.2	Rat	IgG2a		Mouse	common leukocyte antigen (200KD)	CD45	Santa Cruz	Springer, T. A., Galfre, G., Secher, D. S., and Milstein, C. (1978) Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens. <i>Eur. J. Immunol.</i> <b>8</b> , 539-551
M17/4	M17/4.4.11.9	Rat	IgG2a; kappa	Blocking	Mouse	integrin alphaL, LFA-1	CD11a	ATCC TIB-217 Biolegend Santa Cruz eBiosciences BD Biosciences EXBIO Praha Tonbo Biotech Millipore	Sanchez-Madrid, F., Davignon, D., Martz, E., and Springer, T. A. (1982) Antigens involved in mouse cytolytic T-lymphocyte (CTL)-mediated killing: functional screening and topographic relationship. <i>Cell. Immunol.</i> <b>73</b> , 1-11
M17/5	M17/5.2	Rat	IgG2b; kappa	Blocking	Mouse	integrin alphaL, LFA-1	CD11a	ATCC TIB-237	Sanchez-Madrid, F., Davignon, D., Martz, E., and Springer, T. A. (1982) Antigens involved in mouse cytolytic T-lymphocyte (CTL)-mediated killing: functional screening and topographic relationship. <i>Cell. Immunol.</i> <b>73</b> , 1-11

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Name	Clone	Species	Isotype	Function	Species	Molecule	CD		
M18/2	M18/2.a.12.7	Rat	IgG2a; kappa		Mouse	integrin beta2	CD18	ATCC TIB-218 Biolegend Santa Cruz eBiosciences BD Biosciences MorphoSys Miltenyi Biotec EXBIO Praha Millipore	Sanchez-Madrid, F., Simon, P., Thompson, S., and Springer, T. A. (1983) Mapping of antigenic and functional epitopes on the $\alpha$ and $\beta$ subunits of two related glycoproteins involved in cell interactions, LFA-1 and Mac-1. <i>J. Exp. Med.</i> <b>158</b> , 586-602
M3/38	M3/38.12.8 HL.2	Rat	IgG2a; kappa		Mouse	Mac-2, Galectin-3		Biolegend Santa Cruz eBiosciences BD Biosciences MorphoSys Miltenyi Biotec EXBIO Praha Millipore Cedarland Labs	Springer, T. A. (1980) Cell-surface differentiation in the mouse. Characterization of "jumping" and "lineage" antigens using xenogeneic rat monoclonal antibodies. in <i>Monoclonal antibodies</i> (Kennett, R. H., McKearn, T. J., and Bechtol, K. B. eds.), Plenum Press, New York. pp 185-217
M3/84	M3/84.6.34	Rat	IgG1; kappa		Mouse	Mac-3, LAMP-2 (lysosome associated membrane protein-2)		Biolegend Santa Cruz eBiosciences BD Biosciences EXBIO Praha Millipore	Springer, T. A. (1980) Cell-surface differentiation in the mouse. Characterization of "jumping" and "lineage" antigens using xenogeneic rat monoclonal antibodies. in <i>Monoclonal antibodies</i> (Kennett, R. H., McKearn, T. J., and Bechtol, K. B. eds.), Plenum Press, New York. pp 185-217
M5/114	M5/114.15.2	Rat	IgG2b; kappa		Mouse	Ia, MHC class 2 (I-Ab,d,k and I-E d,k)		Biolegend Santa Cruz BD Biosciences MorphoSys	Davignon, D., Martz, E., Reynolds, T., Kurzinger, K., and Springer, T. A. (1981) Lymphocyte function-associated antigen 1 (LFA-1): a surface antigen distinct from Lyt-2,3 that participates in T lymphocyte-mediated killing. <i>Proc Natl Acad Sci U S A</i> <b>78</b> , 4535-4539
M5/49	M5/49.4.1	Rat	IgG2a		Mouse	Thy-1		Millipore	Davignon, D., Martz, E., Reynolds, T., Kurzinger, K., and Springer, T. A. (1981) Lymphocyte function-associated antigen 1 (LFA-1): a surface antigen distinct from Lyt-2,3 that participates in T lymphocyte-mediated killing. <i>Proc Natl Acad Sci U S A</i> <b>78</b> , 4535-4539
MFR4.B	MFR4.B (9C10)	Rat	IgG2a; kappa		Mouse	integrin alpha4, VLA-4	CD49d	Biolegend Santa Cruz BD Biosciences MorphoSys	Kinashi, T., and Springer, T. A. (1994) Adhesion molecules in hematopoietic cells. <i>Blood Cells</i> <b>20</b> , 25-44

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Name	Clone	Species	Isotype	Function	Species	Molecule	CD		
mIC2/4	mIC2/4 (3C4)	Rat	IgG2a; kappa	Blocking	Mouse	ICAM-2	CD102	Biolegend Santa Cruz eBiosciences BD Biosciences MorphoSys Millipore	Xu, H., Bickford, J. K., Luther, E., Carpenito, C., Takei, F., and Springer, T. A. (1996) Characterization of murine intercellular adhesion molecule-2. <i>J. Immunol.</i> <b>156</b> , 4909-4914
MFR5	MFR5 (5H10)	Rat	IgG2a; kappa	Blocking	Mouse	integrin alpha5, VLA-5	CD49e	Biolegend Santa Cruz eBiosciences BD Biosciences MorphoSys Miltenyi Biotec Millipore Southern Biotechnology Associates	Kinashi, T., and Springer, T. A. (1994) Adhesion molecules in hematopoietic cells. <i>Blood Cells</i> <b>20</b> , 25-44
MVCAM.A	MVCAM.A (429)	Rat	IgG2a; kappa	Blocking	Mouse	VCAM-1	CD106	Biolegend Santa Cruz eBiosciences BD Biosciences MorphoSys Miltenyi Biotec EXBIO Praha Tonbo Biotech	Kinashi, T., and Springer, T. A. (1994) Adhesion molecules in hematopoietic cells. <i>Blood Cells</i> <b>20</b> , 25-44
RR 1/1	RR1/1.1.1	Mouse	IgG1		Human	ICAM-1	CD54	Miltenyi Biotec	Rothlein, R., Dustin, M. L., Marlin, S. D., and Springer, T. A. (1986) A human intercellular adhesion molecule (ICAM-1) distinct from LFA-1. <i>J. Immunol.</i> <b>137</b> , 1270-1274
R6.5	R6.5.D6.E9.B2	Mouse	IgG2a	Blocking	Human	ICAM-1	CD54	ATCC HB-9580	Springer TA, et al. Intercellular adhesion molecules, and their binding ligands. US Patent 5,284,931 dated Feb 8 1994
RG11/15	RG11/15.5.4	Mouse	IgG2a; kappa		Rat	kappa chain (IgK-1b)		BD Biosciences	Springer, T. A., Bhattacharya, A., Cardoza, J. T., and Sanchez-Madrid, F. (1982) Monoclonal antibodies specific for rat IgG1, IgG2a, and IgG2b subclasses, and kappa chain monotypic and allotypic determinants: Reagents for use with rat monoclonal antibodies. <i>Hybridoma</i> <b>1</b> , 257-273
RG11/39	RG11/39.4	Mouse	IgG2b; kappa		Rat	IgG1(Fc)		BD Biosciences Miltenyi Biotec	Springer, T. A., Bhattacharya, A., Cardoza, J. T., and Sanchez-Madrid, F. (1982) Monoclonal antibodies specific for rat IgG1, IgG2a, and IgG2b subclasses, and kappa chain monotypic and allotypic determinants: Reagents for use with rat monoclonal antibodies. <i>Hybridoma</i> <b>1</b> , 257-273
RG7/1	RG7/1.30	Mouse	IgG2b; kappa		Rat	IgG2a(Fc)		BD Biosciences Miltenyi Biotec	Springer, T. A., Bhattacharya, A., Cardoza, J. T., and Sanchez-Madrid, F. (1982) Monoclonal antibodies specific for rat IgG1, IgG2a, and IgG2b subclasses, and kappa chain monotypic and allotypic determinants: Reagents for use with rat monoclonal antibodies. <i>Hybridoma</i> <b>1</b> , 257-273

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Name	Clone	Species	Isotype	Function	Species	Molecule	CD		
RG7/11	RG7/11.1	Mouse	IgG2b; kappa		Rat	IgG2b(Fc)		BD Biosciences Miltenyi Biotec	Springer, T. A., Bhattacharya, A., Cardoza, J. T., and Sanchez-Madrid, F. (1982) Monoclonal antibodies specific for rat IgG1, IgG2a, and IgG2b subclasses, and kappa chain monotypic and allotypic determinants: Reagents for use with rat monoclonal antibodies. <i>Hybridoma</i> <b>1</b> , 257-273
RG7/7	RG7/7.6.HL	Mouse	IgG2b; kappa		Rat, Hamster	Ig k1b (LEW) light chain		BD Biosciences	Springer, T. A., Bhattacharya, A., Cardoza, J. T., and Sanchez-Madrid, F. (1982) Monoclonal antibodies specific for rat IgG1, IgG2a, and IgG2b subclasses, and kappa chain monotypic and allotypic determinants: Reagents for use with rat monoclonal antibodies. <i>Hybridoma</i> <b>1</b> , 257-273
RG7/9	RG7/9.1.HLK	Mouse	IgG2b		Rat, Hamster	Ig k light chain		BD Biosciences	Springer, T. A., Bhattacharya, A., Cardoza, J. T., and Sanchez-Madrid, F. (1982) Monoclonal antibodies specific for rat IgG1, IgG2a, and IgG2b subclasses, and kappa chain monotypic and allotypic determinants: Reagents for use with rat monoclonal antibodies. <i>Hybridoma</i> <b>1</b> , 257-273
RG9/6	RG9/6.13.HLK	Mouse	IgG2b		Rat	IgG2a(Fab')		ATCC TIB-167	Springer, T. A., Bhattacharya, A., Cardoza, J. T., and Sanchez-Madrid, F. (1982) Monoclonal antibodies specific for rat IgG1, IgG2a, and IgG2b subclasses, and kappa chain monotypic and allotypic determinants: Reagents for use with rat monoclonal antibodies. <i>Hybridoma</i> <b>1</b> , 257-273
TS1/18	TS1/18.1.2.11	Mouse	IgG1	Blocking	Human	integrin b2	CD18	CytoDyn Biologend Miltenyi Biotec	Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., and Springer, T. A. (1982) Three distinct antigens associated with human T lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. <i>Proc. Natl. Acad. Sci. U. S. A.</i> <b>79</b> , 7489-7493
TS1/22	TS1/22.1.1.13.3	Mouse	IgG1	Blocking	Human	Integrin aL, LFA-1	CD11a	CytoDyn	Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., and Springer, T. A. (1982) Three distinct antigens associated with human T lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. <i>Proc. Natl. Acad. Sci. U. S. A.</i> <b>79</b> , 7489-7493
TS2/16	TS2/16.2.1	Mouse	IgG1	Activating	Human	Integrin B1	CD29	Biologend eBiosciences Miltenyi Biotec Orbigen	Hemler, M. E., Sanchez-Madrid, F., Flotte, T. J., Krensky, A. M., Burakoff, S. J., Bhan, A. K., Springer, T. A., and Strominger, J. L. (1984) Glycoproteins of 210,000 and 130,000 M.W. on activated T cells: Cell distribution and antigenic relation to components on resting cells and T cell lines. <i>J. Immunol.</i> <b>132</b> , 3011-3018
TS2/18	TS2/18.1.1	Mouse	IgG1		Human	LFA-2	CD2	Santa Cruz	Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., and Springer, T. A. (1982) Three distinct antigens associated with human T lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. <i>Proc. Natl. Acad. Sci. U. S. A.</i> <b>79</b> , 7489-7493
TS2/4	TS2/4.1.1	Mouse	IgG1	No	Human	Integrin aL, LFA-1	CD11a	EMD Millipore Southern Biotechnology Associates Biologend Proteintech	Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., and Springer, T. A. (1982) Three distinct antigens associated with human T lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. <i>Proc. Natl. Acad. Sci. U. S. A.</i> <b>79</b> , 7489-7493

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TS2/7	TS2/7.1.1	Mouse	IgG1		Human	Integrin $\alpha$ 1, VLA-1	CD49a	Biolegend Miltenyi Biotec eBiosciences Santa Cruz MorphoSys	Hemler, M. E., Sanchez-Madrid, F., Flotte, T. J., Krensky, A. M., Burakoff, S. J., Bhan, A. K., Springer, T. A., and Strominger, J. L. (1984) Glycoproteins of 210,000 and 130,000 M.W. on activated T cells: Cell distribution and antigenic relation to components on resting cells and T cell lines. <i>J. Immunol.</i> <b>132</b> , 3011-3018
TS2/9	TS2/9.1.4.3	Mouse	IgG1	Blocking	Human	LFA-3	CD58	Biolegend Miltenyi Biotec eBiosciences Santa Cruz Proteintech	Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., and Springer, T. A. (1982) Three distinct antigens associated with human T lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. <i>Proc. Natl. Acad. Sci. U. S. A.</i> <b>79</b> , 7489-7493
CKR-7 (Fc fusion protein)	CCR7 (ELC-Fc)		IgG1		Human, Mouse	CCR7		Santa Cruz	
GARP5	GARP5	Mouse	IgG1		Human	GARP/LRRC32		Morphic Ther. EXBIO Praha Tonbo Biotech	Wang, R., Zhu, J., Dong, X., Shi, M., Lu, C., and Springer, T. A. (2012) GARP regulates the bioavailability and activation of TGF- $\beta$ . <i>Mol. Biol. Cell</i> <b>23</b> , 1129-1139
	M139							Santa Cruz	
M19/23	M19/23	Rat			Mouse	Mac-1	CD11b	BD Biosciences	Sanchez-Madrid, F., Simon, P., Thompson, S., and Springer, T. A. (1983) Mapping of antigenic and functional epitopes on the $\alpha$ and $\beta$ subunits of two related glycoproteins involved in cell interactions, LFA-1 and Mac-1. <i>J. Exp. Med.</i> <b>158</b> , 586-602
TS1/8	TS1/8	Mouse	IgG1, kappa		Human	LFA-2	CD2	Biolegend EXBIO Praha Proteintech	Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., and Springer, T. A. (1982) Three distinct antigens associated with human T lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. <i>Proc. Natl. Acad. Sci. U. S. A.</i> <b>79</b> , 7489-7493
TS2/16	TS2/16.2.1	Mouse	IgG1	Activating	Human	integrin beta1	CD29	Biolegend eBiosciences Miltenyi Proteintech	Hemler, M. E., Sanchez-Madrid, F., Flotte, T. J., Krensky, A. M., Burakoff, S. J., Bhan, A. K., Springer, T. A., and Strominger, J. L. (1984) Glycoproteins of 210,000 and 130,000 M.W. on activated T cells: Cell distribution and antigenic relation to components on resting cells and T cell lines. <i>J. Immunol.</i> <b>132</b> , 3011-3018
CBR LFA1/2	CBR LFA-1/2	Mouse	IgG1		Human	integrin b2	CD18	Biolegend	Petruzzelli, L., Maduzia, L., and Springer, T. A. (1995) Activation of LFA-1 (CD11a/CD18) and Mac-1 (CD11b/CD18) mimicked by an antibody directed against CD18. <i>J. Immunol.</i> <b>155</b> , 854-866
TS2/14	TS2/14	Mouse	IgG1		Human	LFA-1	CD11a	license status is active	Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., and Springer, T. A. (1982) Three distinct antigens associated with human T lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. <i>Proc. Natl. Acad. Sci. U. S. A.</i> <b>79</b> , 7489-7493
TS2/6	TS2/6	Mouse	IgG1		Human	LFA-1	CD11a	license status is active	Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., and Springer, T. A. (1982) Three distinct antigens associated with human T lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. <i>Proc. Natl. Acad. Sci. U. S. A.</i> <b>79</b> , 7489-7493

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TS1/16	TS1/16	Mouse	IgG1		Human	HLA-DR		license status is active	Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., and Springer, T. A. (1982) Three distinct antigens associated with human T lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. <i>Proc. Natl. Acad. Sci. U. S. A.</i> <b>79</b> , 7489-7493
TS1/12	TS1/12	Mouse	IgG1		Human	LFA-1	CD11a	license status is active	Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., and Springer, T. A. (1982) Three distinct antigens associated with human T lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. <i>Proc. Natl. Acad. Sci. U. S. A.</i> <b>79</b> , 7489-7493
TS1/11	TS1/11	Mouse	IgG1		Human	LFA-1	CD11a	license status is active	Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., and Springer, T. A. (1982) Three distinct antigens associated with human T lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. <i>Proc. Natl. Acad. Sci. U. S. A.</i> <b>79</b> , 7489-7493
TS1/2	TS1/2	Mouse	IgG1		Human	HLA-DR		license status is active	Sanchez-Madrid, F., Krensky, A. M., Ware, C. F., Robbins, E., Strominger, J. L., Burakoff, S. J., and Springer, T. A. (1982) Three distinct antigens associated with human T lymphocyte-mediated cytotoxicity: LFA-1, LFA-2, and LFA-3. <i>Proc. Natl. Acad. Sci. U. S. A.</i> <b>79</b> , 7489-7493