

Biofunctional LEAF™ Antibodies

Specificity	Clone	Biofunction	Application References
Mouse CD1d (CD1.1, Ly-38)	1B1	Blocking ¹	1. Fischer, K., et al., 2004. Proc. Natl. Acad. Sci. USA 101:10685. PubMed
Mouse CD2 (LFA-2)	RM2-5	Blocking ^{1,2}	1. Nakamura, T., et al., 1990. J. Immunol. 145:3628. PubMed 2. Ayroldi, E., et al., 1997. Blood 89:3717. PubMed
Mouse CD2 (LFA-2)	RM2-5	Costimulation ¹	1. Cibotti, R., et al., 1997. Immunity 6:245. PubMed
Mouse CD3	17A2	Activation ¹	1. Miescher, G.C., et al., 1989. Immunol. Lett. 23:113. PubMed
Mouse CD3	17A2	Depletion ¹	1. Mysliwicz, J., et al., 1992. Blood 80:2661. PubMed
Mouse CD3ε (T3, C3ε)	145-2C11	Inhibition ¹	1. Leo, O., et al., 1987. PNAS 84:1374. PubMed
Mouse CD3ε (T3, C3ε)	145-2C11	Apoptosis ¹	1. Henrickson, M. et al., 1995. Transplantation 60:828. PubMed
Mouse CD3ε (T3, C3ε)	145-2C11	Depletion ¹	1. Han, W.R., et al., 1999. Transpl. Immunol. 7:207. PubMed
Mouse CD3ε (T3, C3ε)	145-2C11	Activation ¹	1. Wang, W., et al., 2007. J. Immunol. 178:4885. PubMed
Mouse CD4 (L3T4, T4)	GK1.5	Blocking ¹	1. Dialynas, D.P., et al., 1983. J. Immunol. 131:2445. PubMed
Mouse CD4 (L3T4, T4)	GK1.5	Costimulation ¹	1. Wu, L., et al., 1991. J. Exp. Med. 174:1617. PubMed
Mouse CD4 (L3T4, T4)	GK1.5	Depletion ¹	1. Israelski, D.M., et al., 1989. J. Immunol. 142:954. PubMed
Mouse CD4 (L3T4, T4)	RM4-5	Depletion ¹	1. Kruisbeek, A.M., 1991. Curr. Protocols Immunol. pp. 411-415. PubMed
Mouse CD4 (L3T4, T4)	RM4-5	Blocking ¹	1. Kruisbeek, A.M., 1991. Curr. Protocols Immunol. pp. 411-415. PubMed
Mouse CD8a (T8, Ly-2)	53-6.7	Depletion ¹	1. Hathcock, K.S., 1991. Curr. Protocols Immunol. pp. 341 - 3.4.3.
Mouse CD8a (T8, Ly-2)	53-6.7	Blocking ^{1,2}	1. Takahashi, K., et al., 1992. PNAS 89:5557. PubMed 2. Ledbetter, J.A., et al., 1981. J. Exp. Med. 153:1503. PubMed
Mouse CD11a (LFA-1 α chain, integrin αL)	M17/4	Blocking ^{1,2}	1. Sanchez-Madrid, F., et al., 1982. Cell Immunol. 73:1. PubMed 2. Kuhlman, P., et al., 1991. J. Immunol. 146:1773. PubMed
Mouse CD11b (Mac-1, integrin αM)	M1/70	Blocking ¹	1. Springer, T.A., et al., 1982. Immunol. Rev. 68:171. PubMed
Mouse CD14	Sa14-2	Blocking ¹	1. Hajishengallis, G., et al., 2006. Infect Immun. 74:5658. PubMed
Mouse CD16/32 (FcγR III)	93	Blocking ^{1,2}	1. Oliver, A. M., et al., 1999. Hybridoma 18:113. PubMed 2. Clements, J. L., et al., 2006. J. Immunol. 177:905. PubMed
Mouse CD18 (β2 integrin)	M18/2	Blocking ^{1,2}	1. Zahalka, M.A., et al., 1993. J. Immunol. 150:4466. PubMed 2. Ishida, Y., et al., 1994. Cell. Immunol. 155:414. PubMed
Mouse CD18 (β2 integrin)	M18/2	Stimulation ¹	1. Driessens, M.H.E., et al., 1996. J. Leukoc. Biol. 60:758. PubMed
Mouse CD19 (B4)	6D5	Induction/Protection of Apoptosis ¹	1. Celikkaya, H., et al., 2007. Hybridoma 26 (2):55. PubMed
Mouse CD21/CD35 (CR2/CR1)	7E9	Activation ¹	1. Kozono, Y., et al., 1998. J. Immunol. 160:1565. PubMed
Mouse CD24 (HAS)	M1/69	Induction ¹	1. Springer, T., et al., 1978. Eur. J. Immunol. 8:539. PubMed

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Specificity	Clone	Biofunction	Application References
Mouse CD25 (IL-2R α)	3C7	Blocking ^{1,2}	1. Ortega, R.G., et al., 1984. J. Immunol. 133:1970. PubMed 2. Moreau, J.L., et al., 1987. Eur. J. Immunol. 17:929. PubMed
Mouse CD25 (IL-2R α)	PC61	Blocking ^{1,2}	1. Ceredig, R., et al., 1985. Nature 314:98. PubMed 2. Lowenthal, J.W., et al., 1985. J. Immunol. 135:3988. PubMed
Mouse CD25 (IL-2R α)	PC61	Depletion ^{1,2}	1. Takahashi, T., et al., 2000. J. Exp. Med. 192:303. PubMed 2. Lei, T.C., et al., 2005. Blood 105:4865. PubMed
Mouse CD27	LG.3A10	Blocking ¹	1. Gravestien, L.A., et al., 1996. J. Exp. Med. 194:675. PubMed
Mouse CD28 (TP44)	37.51	Blocking ^{1,2}	1. Masten, B.J., et al., 1997. Am. J. Respir. Cell Mol. Biol. 16:335. PubMed 2. Nishio, M., et al., 1996. J. Immunol. 157:4347. PubMed
Mouse CD28 (TP44)	37.51	Costimulation ^{1,2}	1. Gross, J.A., et al., 1992. J. Immunol. 149:380. PubMed 2. Cibotti, R., et al., 1997. Immunity 6:245. PubMed
Mouse CD28 (TP44)	E18	Costimulation ¹	1. Dennehy, K.M., et al., 2006. J. Immunol. 176:5725. PubMed
Mouse/Rat CD29 (Integrin β1)	HMB1-1	Blocking ^{1,2}	1. Noto, K., et al., 1995. Int. Immunol. 7: 835. PubMed 2. Ridger, V.C., et al., 2001. J. Immunol. 166:3484. PubMed
Mouse CD30 (Ki-1, TNFRSF8)	mCD30.1	Costimulation ¹	1. Bowen, M.A., et al., 1996. J. Immunol. 156:442. PubMed
Mouse CD31 (PECAM-1)	390	Blocking ^{1,2}	1. Baldwin, H.S., et al., 1994. Development 120:2539. PubMed 2. DeLisser, H.M., et al., 1997. Am. J. Pathol. 151:671. PubMed
Mouse CD31 (PECAM-1)	MEC13.3	Blocking ^{1,2}	1. Vecchi, A, et al., 1994. Eur. J. Cell Biol. 63:247. PubMed 2. Christofidou-Solomidou, M., et al., 1997. J. Immunol. 158:4872. PubMed
Mouse CD40 (gp39R, TNFRSF5)	1C10	Costimulation ^{1,2}	1. Ferlin, W. G., et al., 1998. Eur. J. Immunol. 28:525. PubMed 2. Heath, A., et al., 1994. Eur. J. Immunol. 24:1828. PubMed
Mouse CD40 (gp39R, TNFRSF5)	1C10	Blocking ^{1,2}	1. Peláez, B., et al., 2001. J. Immunol. 166:6608. PubMed 2. Zhang, P., et al., 2007. J. Immunol. 178:474. PubMed
Mouse CD40 (gp39R, TNFRSF5)	HM40-3	Blocking ¹	1. Kawano, T., et al., 1997. Science 278:1626. PubMed
Mouse CD40 (gp39R, TNFRSF5)	HM40-3	Costimulation ^{1,2}	1. Kaneko, Y., et al., 1996. Eur. J. Immunol. 26:3061. PubMed 2. Akiba, H., et al., 1999. J. Immunol. 162:7058. PubMed
Mouse/Human CD44 (pgp-1)	IM7	Blocking ^{1,2}	1. Camp, R.L., et al., 1993. J. Exp. Med. 178:497. PubMed 2. Weiss, J.M., et al., 1997. J. Cell Biol. 137:1137. PubMed
Mouse CD45	30-F11	Complement-dependent cytotoxicity ^{1,2}	1. Ledbetter, J.A., et al., 1979. Immunol. Rev. 47:63. PubMed 2. Seaman, W.E., 1983. J. Immunol. 130:1713. PubMed
Mouse CD45R (B220)	RA3-6B2	Activation ^{1,2}	1. George, A., et al., 1994. J. Immunol. 152:1014. PubMed 2. Domiati-Saad, R., et al., 1993. J. Immunol. 151:5936. PubMed
Mouse CD48 (Blast-1)	HM48-1	Costimulation ^{1,2}	1. Kato, K., et al., 1992. J. Exp. Med. 176:1241. PubMed 2. Qin, L., et al., 1994. J. Exp. Med. 179:341. PubMed
Mouse CD48 (Blast-1)	HM48-1	Blocking ¹	1. Kato, K., et al., 1992. J. Exp. Med. 176:1241. PubMed
Mouse CD48 (Blast-1)	HM48-1	Inhibition ¹	1. Qin, L., et al., 1994. J. Exp. Med. 179:341. PubMed
Mouse CD49b (α2 integrin)	HM α 2	Blocking ^{1,2}	1. Miyake, S., et al., 1994. Eur. J. Immunol. 24:2000. PubMed 2. Arase, H., et al., 2001. J. Immunol. 167:1141. PubMed
Mouse CD49d (VLA-4, α4 integrin)	R1-2	Blocking ^{1,2}	1. Holzmann, B., et al., 1989. Cell 56:37. PubMed 2. Ferguson, T.A., et al., 1993. J. Immunol. 150:1172. PubMed
Mouse CD49d (VLA-4, α4 integrin)	9C10(MFR4.B)	Blocking ^{1,2}	1. Kinashi, T., et al., 1994. Blood Cells 20:25. PubMed 2. Halvorson, M.J., et al., 1995. J. Immunol. 155:4567. PubMed
Mouse CD49e (VLA-5α, α integrin)	5H10-27 (MFR5)	Blocking ^{1,2}	1. Kinashi, T., et al., 1994. Blood Cells 20:25. PubMed 2. Halvorson, M.J., et al., 1995. J. Immunol. 155:4567. PubMed
Mouse CD49e (VLA-5α, α integrin)	5H10-27 (MFR5)	Costimulation ¹	1. Rich, S., et al., 1996. J. Immunol. 157:2916. PubMed

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Specificity	Clone	Biofunction	Application References
Mouse/Rat CD49e (VLA-5a, α5 integrin)	HMa5-1	Blocking ^{1,2}	1. Yasuda, M., et al., 1995. Int. Immunol. 7:251. PubMed 2. Noto, K., et al., 1995. Int. Immunol. 7:835. PubMed
Mouse/Human CD49f	GoH3	Blocking ^{1,2}	1. Georas, S. N., et al., 1993. Blood 82:2872. PubMed 2. Nakamura, K., et al., 1997. Biochem. Biophys. Res. Commun. 235:524. PubMed
Mouse CD51 (Integrin αV)	H9.2B8	Blocking ^{1,2}	1. Maxfield, S.R., et al., 1989. J. Exp. Med. 169: 2173. PubMed 2. Piali, L., et al., 1995. J. Cell Biol. 130: 451. PubMed
Mouse CD51 (Integrin αV)	RMV-7	Blocking ^{1,2}	1. Takahashi, K., et al., 1990. J. Immunol. 145:4371. PubMed 2. Narumiya, S., et al., 1994. Int. Immunol. 6:139. PubMed
Mouse CD54 (ICAM-1)	YN1/1.7.4	Blocking ^{1,2}	1. Horley, K.J., et al., 1989. EMBO J. 8:2889. PubMed 2. Burns, A.R., et al., 1994. J. Immunol. 153:3189. PubMed
Mouse/Rat CD61 (β3 integrin)	2C9.G2 (HMβ3-1)	Blocking ^{1,2}	1. Piali, L., et al., 1995. J. Cell Biol. 130:451. PubMed 2. Ashkar, S., et al., 2000. Science 287:860. PubMed
Mouse/Rat CD61 (β3 integrin)	2C9.G2 (HMβ3-1)	Activation ¹	1. Moulder, K., et al., 1991. J. Exp. Med. 173:343. PubMed
Mouse CD62L (L-selectin)	MEL-14	Blocking ^{1,2}	1. Gallatin, W.M., et al., 1983. Nature 304:30. PubMed 2. Siegelman, M.H., et al., 1990. Cell 61:611. PubMed
Mouse CD70 (CD27R)	FR70	Blocking ^{1,2}	1. Akiba, H., H., et al., 1999. J. Immunol. 162:7058. PubMed 2. Takeda, K., et al., 2000. J. Immunol. 164:1741. PubMed
Mouse CD80 (B7-1)	16-10A1	Blocking ^{1,2}	1. Razi-Wolf, Z., et al., 1992. PNAS 89:4210. PubMed 2. Hathcock, K.S., et al., 1994. J. Exp. Med. 180:631. PubMed
Mouse/Rat CD81 (TAPA-1)	Eat-2	Induction ¹	1. Maecker, H. T., et al., 2000. Hybridoma 19:15. PubMed
Mouse/Rat CD81 (TAPA-1)	Eat-2	Costimulation ¹	1. Maecker, H. T., et al., 2000. Hybridoma 19:15. PubMed
Mouse/Rat CD81 (TAPA-1)	Eat-2	Activation ¹	1. Clark, K. L., et al., 2001. J. Immunol. 167:5115. PubMed
Mouse CD86 (B7-2)	GL-1	Blocking ^{1,2}	1. Hathcock, K.S., et al., 1993. Science 262:905. PubMed 2. Inaba, K., M., et al., 1994. J. Exp. Med. 180:1849. PubMed
Mouse CD86 (B7-2)	PO3	Blocking ^{1,2}	1. Nakajima, A., et al., 1995. Eur. J. Immunol. 25:3060. PubMed 2. Saito, K., et al., 1998. J. Immunol. 160:4225. PubMed
Mouse CD86 (B7-2)	PO3	Stimulation ¹	1. Kasprovicz, D.J., et al., 2000. J. Immunol. 165:680. PubMed
Mouse CD90 (Thy-1)	G7	Activation ^{1,2}	1. Gunter, K.C., et al., 1984. J. Exp. Med. 159:716. PubMed 2. Tentori, L., et al., 1988. J. Immunol. 140: 1089. PubMed
Mouse CD90 (Thy-1)	G7	Apoptosis ^{1,2}	1. Hueber, A.-O., et al., 1994. J. Exp. Med. 179: 785. PubMed 2. Ucker, D.S., et al., 1992. J. Immunol. 149: 1583. PubMed
Mouse CD90.2 (Thy-1.2)	30-H12	Depletion ^{1,2}	1. Hathcock, K.S. 1991. Curr. Protocols Immunol. 341 PubMed 2. Seaman, W.E., 1983. J. Immunol. 130:1713. PubMed
Mouse CD90.2 (Thy-1.2)	30-H12	Costimulation ^{1,2}	1. Nakashima, I., et al., 1991. J. Immunol. 147:1153. PubMed 2. Nakashima, I., et al., 1993. J. Immunol. 151:3511. PubMed
Mouse CD102 (ICAM-2)	3C4 (MIC2/4)	Blocking ¹	1. Xu, H., et al., 1996. J. Immunol. 156:4909. PubMed 2. Gerwin, N., et al., 1999. Immunity 10:9. PubMed
Mouse CD103	2E7	Activation ¹	1. LeFrancois, L., et al., 1994. Eur. J. Immunol. 24:635. PubMed
Mouse CD106 (VCAM-1)	429 (MVCAM.A)	Blocking ^{1,2}	1. Kinashi, T., et al., 1994. Blood Cells 20:25. PubMed 2. Meunier, M.-C., et al., 2005. Nature Medicine 11:1222. PubMed
Mouse CD120a (TNF R Type I/p55)	55R-170	Blocking ¹	1. Sheehan, K. C., et al., 1995. J. Exp. Med. 181:607. PubMed
Mouse CD120a (TNF R Type I/p55)	55R-593	Blocking ¹	1. Sheehan, K. C., et al., 1995. J. Exp. Med. 181:607. PubMed
Mouse CD120b (TNF R Type II/p75)	TR75-32.4	Blocking ¹	1. Sheehan, K. C., et al., 1995. J. Exp. Med. 181:607. PubMed

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Specificity	Clone	Biofunction	Application References
Mouse CD120b (TNF R Type II/p75)	TR75-54.7	Blocking ¹	1. Sheehan, K. C., et al., 1995. J. Exp. Med. 181:607. PubMed
Mouse CD121a (IL-1 R, Type I/p80)	JAMA-147	Blocking ¹	1. Rogers, H., K., et al., 1992. PNAS 89:1011. PubMed
Mouse CD122 (IL-2R β)	TM-β1	Block ¹	1. Tanaka, T., et al., 1991. J. Immunol. 147:2222. PubMed
Mouse CD122 (IL-2R β)	TM-β1	Depletion ¹	1. Tanaka, T., et al., 1993. J. Exp. Med. 178:1103. PubMed
Mouse/Rat CD126 (IL-6 R α chain)	D7715A7	Blocking ^{1,2}	1. Coulie, P. G., et al., 1990. Curr. Top. Microbiol. Immunol. 166:43. PubMed 2. Vink, A., et al., 1990. J. Exp. Med. 172:997. PubMed
Mouse CDw137 (4-1BB Ligand)	TKS-1	Blocking ¹	1. Akiba, H., et al., 2000. J. Exp. Med. 191:375. PubMed
Mouse CD137 (IL-3R β, common β chain)	17B5	Blocking ¹	1. Zheng, G., et al., 2004. J. Immunol. 173:2428. PubMed
Mouse CD150 (SLAM)	TC15-12F12.2	Costimulation ¹	1. Castro, A.G., et al., 1999. J. Immunol. 163:5860. PubMed
Mouse CD150 (SLAM)	TC15-12F12.2	Inhibition ¹	1. Jordan, M. A., et al., 2007. J. Immunol. 178:1618. PubMed
Mouse CD152 (CTLA-4)	9H10	Costimulation ¹	1. Krummel, M.F., et al., 1995. J. Exp. Med. 182:459. PubMed
Mouse CD152 (CTLA-4)	9H10	Blocking ^{1,2}	1. Krummel, M.F., et al., 1995. J. Exp. Med. 182:459. PubMed 2. Krummel, M.F., et al., 1996. Int. Immunol. 8:519. PubMed
Mouse CD152 (CTLA-4)	UC10-4B9	Blocking ^{1,2}	1. Walunas, T.L., et al., 1994. Immunity 1:405. PubMed 2. McCoy, K., et al., 1997. J. Exp. Med. 186:183. PubMed
Mouse CD153 (CD30L)	RM153	Blocking ^{1,2}	1. Akiba, H., et al., 2000. J. Exp. Med. 191:375. PubMed 2. Zeiser, R., et al., 2007. Blood 109:2225. PubMed
Mouse CD154 (CD40L)	MR1	Blocking ^{1,2}	1. Noelle, R.J., et al., 1992. PNAS 89:6550. PubMed 2. Roy, M., et al., 1995. Eur. J. Immunol. 25:596. PubMed
Mouse CD178 (FasL)	MFL3	Blocking apoptosis ^{1,2}	1. Fuller, C.L., et al., 1999. J. Immunol. 162:6337. PubMed 2. Kayagaki, N., et al., 1997. PNAS 94:3914. PubMed
Mouse/Rat CD178 (FasL)	MFL4	Blocking ^{1,2}	1. Trinité, B., et al., 2000. J. Immunol. 165:4202. PubMed 2. Kayagaki, N., et al., 1997. PNAS 94:3914. PubMed
Mouse CD178.1 (FasL)	Kay-10	Blocking ^{1,2}	1. Kayagaki, N., et al., 1997. PNAS 94:3914. PubMed 2. Hattori, K., et al., 1998. Blood 91:4051. PubMed
Mouse CD180 (RP105)	RP/14	Activation ^{1,2}	1. Miyake, K., et al., 1994. J. Exp. Med. 180:1217. PubMed 2. Chan, V.W.F., et al., 1998. J. Exp. Med. 188:93. PubMed
Mouse CD180 (RP105)	RP/14	Induction/Protection of Apoptosis ^{1,2}	1. Miyake, K., et al., 1994. J. Exp. Med. 180:1217. PubMed 2. Yamashita, Y., et al., 1996. J. Exp. Med. 184:113. PubMed
Mouse CD183 (CXCR3)	CXCR3-173	Blocking ¹	1. Uppaluri, R., et al. 2008. Transplantation. 86:137. PubMed
Mouse CD210 (IL-10 R)	1B1.3a	Blocking ^{1,2}	1. Iwashiro, M., et al., 2001. PNAS 98:9226. PubMed 2. Vicari, A.P., et al., 2002. J. Exp. Med. 196:541. PubMed
Mouse CD223 (LAG-3)	C9B7W	Inhibition, not blocking ^{1,2}	1. Workman C.J., et al., 2002. Eur. Immunol. 32:2255. PubMed 2. Workman, C.J. et al., 2005. J. Immunol. 174:688. PubMed
Mouse CD252 (OX40 Ligand)	RM134L	Blocking ^{1,2}	1. Akiba, H., et al., 1999. J. Immunol. 162: 7058. PubMed 2. Akiba, H., et al., 2000. J. Exp. Med. 191:375. PubMed
Mouse CD253 (TRAIL)	N2B2	Blocking ^{1,2}	1. Kayagaki, N., et al., 1999. J. Immunol. 163:1906. PubMed 2. Sato, K., et al., 2005. J. Immunol. 174:4025. PubMed
Mouse CD254 (TRANCE, RANKL)	IK22/5	Blocking ^{1,2}	1. Miyahira, Y., et al., 2003. J. Immunol. 171:6344. PubMed 2. Kamijo, S., et al., 2006. Biochem. Biophys. Res. Commun. 347:124. PubMed
Mouse CD255 (TWEAK)	MTW-1	Blocking ¹	1. Nakayama, M., et al., 2003. Biochem. Biophys. Res. Commun. 306:819. PubMed

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Specificity	Clone	Biofunction	Application References
Mouse CD262 (DR5, TRAIL-R2)	MD5-1	Cytotoxicity ^{1,2}	1. Takeda, K., et al., 2004. J. Exp. Med. 199:437. PubMed 2. Sato, K., et al., 2005. J. Immunol. 174:4025. PubMed
Mouse CD273 (PD-L2, PDL2, B7DC)	TY25	Blocking ^{1,2}	1. Ansari, M.J.I., et al., 2003. J. Exp. Med. 198:63. PubMed 2. Yamazaki, T., et al., 2005. J. Immunol. 175:1586. PubMed
Mouse CD274 (B7-H1, PD-L2)	10F.9G2	Blocking ¹	1. Maier H., et al., 2007. J Immunol. 178:2714. PubMed
Mouse CD275 (B7-RP1, ICOSL, B7H2)	HK5.3	Blocking ^{1,2}	1. Iwai, H., et al., 2003. J. Immunol. 171:2848. PubMed 2. Kohyama, M., et al., 2004. Proc. Natl. Acad. Sci. USA 101:4192 PubMed
Mouse CD278 (ICOS)	C398.4A	Costimulation ^{1,2}	1. Redoglia, V., et al. 1996. Eur. J. Immunol. 26:2781. PubMed 2. Arimura, Y., et al. 2004. J. Biol. Chem. 279:11408. PubMed
Mouse CD278 (ICOS)	7E.17G9	Blocking ^{1,2}	1. Akbari, O., et al., 2002. Nat. Med. 8:1024. PubMed 2. Harada, H., et al., 2003. J. Clin. Invest. 112:234. PubMed
Mouse CD279 (PD-1)	RMP1-14	Blocking ¹	1. Matsumoto, K., et al., 2004. J. Immunol. 172:2530. PubMed
Mouse CD284 (Toll-like Receptor 4, TLR4,)	MTS510	Blocking ¹	1. Akashi, S., et al., 2000. J. Immunol. 164:3471. PubMed
Mouse CD314 (NKG2D)	A10	Costimulation ^{1,2}	1. Gilfillan S, et al., 2002. Nat. Immunol. 3:1150. PubMed 2. Ho, E.L., et al., 2002. J. Immunol. 169:3667. PubMed
Mouse CD314 (NKG2D)	C7	Blocking ¹	1. Gilfillan, S., et al., 2002. Nat. Immunol. 3:1150. PubMed
Mouse CD314 (NKG2D)	C7	Redirected lysis ¹	1. Ho, E.L., et al., 2002. J. Immunol. 169:3667. PubMed
Mouse FR4	TH6	Cytotoxicity ¹	1. Yamaguchi, T., et al.: 2007. Immunity 27 (1):145 PubMed
Mouse GITR	YGITR 765	Stimulation ¹	1. Tone, M., et al., 2003. PNAS 100(25):15059. PubMed
Mouse GITR	DTA-1	Inhibition ¹	1. Shimizu, J., et al., 2002. Nat. Immunol. 3:135. PubMed
Mouse H-2L	28-14-8	Blocking ¹	1. Ozato, K., et al., 1980. J. Immunol. 125:2473. PubMed
Mouse I-A	25-9-17	Activation ¹	1. Ozato, K., et al., 1981. J. Immunol. 126:317. PubMed
Mouse I-A/I-E	M5/114.15.2	Blocking ^{1,2}	1. Shi, Y., et al., 1998. J. Exp. Med. 187:367. PubMed 2. Kim, A., et al., 2004. Exp. and Mol. Med. 36:428. PubMed
Mouse IFNAR-1	MAR1-5A3	Blocking ¹	1. Sheehan, K.C., et al., 2006. J. Interferon Cytokine Res. 26:804. PubMed
Mouse Integrin $\beta 7$	FIB27	Blocking ¹	1. Andrew, D. P., et al., 1994. J. Immunol. 153:3847. PubMed
Mouse Integrin $\beta 7$	FIB504	Blocking ^{1,2}	1. Andrew, D. P., et al., 1994. J. Immunol. 153:3847. PubMed 2. Rott, L. S., et al., 1996. J. Immunol. 156:3727. PubMed
Mouse LPAM-1 (Integrin $\alpha 4\beta 7$)	DATK32	Blocking ^{1,2}	1. Andrew, D. P. et al., 1994. J. Immunol. 153:3847. PubMed 2. Berlin-Rufenach, C. et al., 1999. J. Exp. Med. 189:1467. PubMed
Mouse Ly-6G/Ly-6C (Gr-1)	RB6-8C5	Depletion ^{1,2}	1. Stoppacciaro, A., et al., 1993. J. Exp. Med. 178:151. PubMed 2. Czuprynski, C.J., et al., 1994. J. Immunol. 152:1836. PubMed
Mouse MAdCAM-1	MECA-367	Blocking ^{1,2}	1. Streeter, P. R., et al., 1988. Nature 331:41. PubMed 2. Bargatze, R. F., et al., 1995. Immunity 3:99. PubMed
Mouse MD-1	MD-113	Blocking ¹	1. Nagai, Y., et al., 2002. Blood 99 :1699. PubMed
Mouse NK-1.1	PK136	Depletion ^{1,2}	1. Senan, C.L., et al., 1989. J. Immunol. 142:1847. PubMed 2. Koo, G.C., et al., 1986. J. Immunol. 137:3742. PubMed
Mouse NK-1.1	PK136	Stimulation ¹	1. Karlhofer, F.M., et al., 1991. J. Immunol. 146:3662. PubMed

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Specificity	Clone	Biofunction	Application References
Mouse NK-1.1	PK136	Blocking ¹	1. Kung, S.K., et al., 1999. J. Immunol. 162:5876. PubMed
Mouse TCR-β chain	H57-597	Stimulation ^{1,2}	1. Kruisbeek, A., et al., 1991. Curr. Protocols Immunol. pp. 3.12.1 2. Davenport, C., et al., 1995. J. Immunol. 155:3742. PubMed
Mouse TCR-β chain	H57-597	Depletion ^{1,2}	1. Drobyski, W., et al., 1996. Blood 87:5355. PubMed 2. van der Heyde, H.C., et al., 1995. J. Immunol. 154:3985. PubMed
Mouse γδ TCR	UC7-13D5	Stimulation ¹	1. Bluestone, J.A., et al., 1991. Immunol. Rev. 120:5. 3.12.1 – 3.12.14. PubMed
Mouse γδ TCR	UC7-13D5	Depletion ^{1,2}	1. Hiromatsu, K., et al., 1992. J. Exp. Med. 175:49. PubMed 2. van der Heyde, H.C., et al., 1995. J. Immunol. 154:3985. PubMed
Rat CD8a	G28	Blocking ¹	1. Torres-Nagel, N. et al., 1992. Eur. J. Immunol. 22:2841. PubMed
Rat CD8b	341	Blocking ¹	1. Torres-Nagel, N., et al., 1992. Eur. J. Immunol. 22:2841. PubMed
Rat CD8b	341	Macrophage stimulation ^{1,2}	1. Hirji, N., et al., 1997. J. Immunol. 158:1833. PubMed 2. Hirji, N., et al., 1998. J. Immunol. 160:6004. PubMed
Rat CD28	JJ319	Costimulation ^{1,2}	1. Tacke, M., et al., 1995. J. Immunol. 154:5121. PubMed 2. Tacke, M., et al., 1997. Eur. J. Immunol. 27:239. PubMed
Rat CD49d	MRα4-1	Activation ¹	1. Yasuda, M., et al., 1995. Int. Immunol. 7:251. PubMed
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Rat CD80	3H5	Blocking ¹	1. Maeda, K., et al., 1997. Int. Immunol. 9:993. PubMed
Rat CD86	24F	Blocking ¹	1. Maeda, K., et al., 1997. Int. Immunol. 9:993. PubMed
Rat CD126	D7715A7	Blocking ^{1,2}	1. Coulie, P. G., et al., 1990. Curr. Top. Microbiol. Immunol. 166:43. PubMed 2. Vink, A., et al., 1990. J. Exp. Med. 172:997. PubMed
Rat CD178 (FasL)	MFL4	Blocking ^{1,2}	1. Trinité, B., et al., 2000. J. Immunol. 165:4202. PubMed 2. Kayagaki, N., et al., 1997. PNAS 94:3914. PubMed
Rat OX-40 Ligand	ATM-2	Blocking ^{1,2}	1. Satake, Y., et al., 2000. Biochem. Biophys. Res. Commun. 270:1041. PubMed 2. Yuan, X., et al., 2003. J. Immunol. 170:2949. PubMed
Rat αβ TCR	R73	Activation ^{1,2}	1. Hunig, T. et al., 1989. J. Exp. Med. 169:73. PubMed 2. Mitnacht, R., et al., 1995. Eur. J. Immunol. 25:328. PubMed
Rat αβ TCR	R73	Depletion ^{1,2}	1. Yoshino, S. et al., 1992. J. Exp. Med. 175:907. PubMed 2. Mitnacht, R., et al., 1995. Eur. J. Immunol. 25:328. PubMed
Human CD2	RPA-2.10	Blocking ¹	1. Aversa, G., et al., 1987. Transplant. Proc. 19:277. PubMed
Human CD2	TS1/8	Blocking ¹	1. Hughes, C.C., et al., 1996. J. Biol. Chem. 271:5369. PubMed
Human CD3	HIT3a	Activation ^{1,2}	1. Sedelies, K. A., et al., 2004. J. Biol. Chem. 279:26581. PubMed 2. Rivollier, A., et al., 2004. Blood 104:4029. PubMed
Human CD3	OKT3	Activation ^{1,2}	1. Hibino, S., et al., 1998. Biochem. Biophys. Res. Comm. 250:119. PubMed 2. Schwab, R., et al., 1985. J. Immunol. 135:1714. PubMed
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Human CD4	OKT4	Blocking ¹	1. Finnegan, C.M., et al., 2007. J. Virol. 81: 5294. PubMed
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Human CD11a	HI111	Blocking ¹	1. Béchar, D., et al., 2001. J. Immunol. 167:3099. PubMed
Human CD11b	ICRF44	Blocking ^{1,2}	1. Rezzonico, R., et al., 2001. Blood 97:2932. PubMed 2. Marsik, C., et al., 2003. Shock 20:493. PubMed
Human CD11b (activated)	CBRM1/5	Blocking ^{1,2}	1. Diamond, M., et al., 1993. J. Cell Biol. 120:545. PubMed 2. Oxvig, C. et al., 1999. PNAS 96:2215. PubMed
Human CD11c	3.9	Inhibition ^{1,2}	1. Zaffran, Y., et al., 1998. Infect. Immun. 66:4541. PubMed 2. Baniyash, M., et al., 1987 J. Immunol. 138:2999. PubMed
Human CD13	WM15	Blocking ^{1,2}	1. Saiki, I., et al., 1993. Int J Cancer. 54:137. PubMed 2. Rosenzweig, M., et al., 2000. Blood 95:453. PubMed
Human CD14	M5E2	Blocking ¹	1. Power, C. P., et al., 2004. J. Immunol. 173:5229. PubMed
Human CD16	3G8	Blocking ^{1,2}	1. Tamm, A., et al., 1996. J. Immunol. 157:1576. PubMed 2. Holl, V., et al., 2004. J. Immunol. 173:6274. PubMed
Human CD16	3G8	Stimulation ^{1,2}	1. Hoshino, S., et al., 1991. Blood 78:3232. PubMed 2. Dall'Ozzo, S. et al., 2004. Cancer Res. 64:4664. PubMed
Human CD18	TS1/18	Inhibition ^{1,2}	1. Van Epps, D. E., et al., 1989. J. Immunol. 143:3207. PubMed 2. Meerschaert, J., et al., 1994. J. Immunol. 152:1915. PubMed
Human CD28	CD28.2	Costimulation ^{1,2}	1. Marti, F., et al., 2001. J. Immunol. 166:197. PubMed 2. Jeong, S-H., et al., 2004. J Virol. 78:6995. PubMed
Human CD29	TS2/16	Activation ^{1,2}	1. Sanchez-Aparicio, P., et al., 1994. J. Cell Biol. 126:271. PubMed 2. Porter, J.C. and Hogg, N., 1997. J. Cell Biol. 138:1437. PubMed
Human CD31	WM59	Blocking ¹	1. Wu, X-W., et al., 1997. Arterioscler Thromb and Vasc Biol 17:3154. PubMed
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Human CD40	G28.5	B cell activation ¹	1. Ledbetter, J., et al., 1987. J. Immunol. 138:788. PubMed
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Human CD42b	HIP1	Blocking ¹	1. Takahashi, R., et al., 1999. Blood 93:1951. PubMed
Human CD46	MEM-258	Blocking ^{1,2}	1. Sirena, D. et al., 2004. J. Virol. 78:4454. PubMed 2. Fleischli, C. et al., 2007. J. Gen. Virol. 88:2925. PubMed
Human CD49b	AK-7	Blocking ^{1,2}	1. Halasz, P. et al., 2005. Cell. Immunol. 236:179. PubMed 2. Coulson, B. et al., 1997. PNAS 94:5389. PubMed
Human CD49d	9F10	Costimulation ^{1,2}	1. Jeong, S-H., et al., 2004. J. Virol. 78:6995. PubMed 2. Vogel, T. U., et al., 2002. J. Immunol. 169:4511. PubMed
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Human/Mouse CD49f	GoH3	Blocking ^{1,2}	1. Georas, S. N., et al., 1993. Blood 82:2872. PubMed 2. Nakamura, K., et al., 1997. Biochem. Biophys. Res. Commun. 235:524. PubMed
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Human CD62P (P-Selectin)	AK4	Blocking ^{1,2}	1. Skinner, M., et al., 1991. J. Biol. Chem. 266:5371. PubMed 2. McCarty, O.J., et al., 2000. Blood 96:1789. PubMed

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Specificity	Clone	Biofunction	Application References
Human CD80	2D10	Blocking ^{1,2}	1. Ridge, J.P., et al., 1998. Nature 393:474. PubMed 2. Dilioglou, S., et al., 2003. Exp. Mol. Pathol. 75:217. PubMed
Human CD84	CD84.1.21	Activation ¹	1. Martin, M., et al., 2001. J. Immunol. 167: 3668. PubMed 2. Sayós, J., et al., 2001. Blood 97: 3867. PubMed
Human CD86	IT2.2	Blocking ^{1,2}	1. Dieu, M. 1998. J. Exp. Med. 188:373. PubMed 2. Jeannin, P. et al., 1999. J. Immunol. 162:2044. PubMed
Human CD95 (Fas)	EOS9.1	Apoptosis ^{1,2}	1. Desbarats, J., et al., 2003. Nat. Cell Biol. 5:118. PubMed 2. Inoue, M., et al., 2005. FEBS Lett. 579:604. PubMed
Human CD95 (Fas)	DX2	Apoptosis ^{1,2}	1. Cifone, M., et al., 1994. J. Exp. Med. 180:1547. PubMed 2. Bompard, G. et al., 2002. J. Biol. Chem. 49:47861. PubMed
Human CD117 (c-kit)	A3C6E2	Blocking ¹	1. Personal communication.
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Human CD129 (IL-9 Receptor)	AH9R7	Blocking ^{1,2}	1. De Smedt, M., et al., 2000. J. Immunol. 164:1761. PubMed 2. Pilette, C., et al., 2002. J. Immunol. 168:4103. PubMed
Human CD137 (4-1BB)	4B4-1	Blocking ^{1,2}	1. Salih, H. R., et al., 2000. J. Immunol. 165:2903. PubMed 2. Kienzle, G., et al., 2000. Int. Immunol. 12:73. PubMed
Human CD147	HIM6	Blocking ^{1,2}	1. Stonehouse, T.J., et al., 1999. Immunology. 96:35. PubMed 2. Woodhead, V.E., et al., 2000. Int. Immunol. 12:1051. PubMed
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Human CD178 (Fas-L)	NOK-1	Blocks Fas induced apoptosis ¹	1. Kayagaki, N., et al., 1995. J. Exp. Med. 182:1777. PubMed
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Human CD218a (IL-18R alpha)	H44	Blocking ¹	1. Vermot-Desroches, C., et al., 2005. Cell Immunol. 236:101. PubMed
Human CD229 (Ly-9)	HLy-9.1.25	Activation ^{1,2,3}	1. de la Fuente, M. A., et al., 2001. Blood 97:3513. PubMed 2. Martin, M., et al., 2005. J. Immunol. 174: 5977. PubMed 3. Romero, X., et al., 2005. J. Immunol. 174:7033. PubMed
Human CD268 (BAFF-R, BAFRR)	11C1	Blocking ^{1,2}	1. Ng, L. G., et al., 2004. J. Immunol. 173:807. PubMed 2. Personal communication.
Human/Mouse/Rat CD278 (ICOS)	C398.4A	Costimulation ^{1,2}	1. Redoglia, V., et al., 1996. Eur. J. Immunol. 26:2781. PubMed 2. Arimura, Y., et al., 2004. J. Biol. Chem. 279:11408. PubMed
Human CD314 (NKG2D)	1D11	Activation ^{1,2}	1. Wu, J., et al., 2000. J. Exp. Med. 192:1059. PubMed 2. Groh, V., et al., 2001. Nat. Immunol. 2:255. PubMed
Human CD336 (NKp44)	P44-8	Blocking ^{1,2}	1. Stark, S., et al., 2005. J. Immunol. Methods 296:149. PubMed 2. Nolte-'t Hoen, E., et al., 2006. Blood 109:670. PubMed
Human CD337 (NKp30)	P30-15	Blocking ¹	1. Stark, S., et al., 2005. J. Immunol. Methods 296:149. PubMed
Human Fn14/TWEAK Receptor	ITEM-1	Apoptosis ^{1,2}	1. Nakayama, M., et al., 2003. J. Immunol. 170:341. PubMed 2. Felli, N., et al., 2005. J. Immunol. 175:1464. PubMed

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Specificity	Clone	Biofunction	Application References
Human Fn14/TWEAK Receptor	ITEM-1	Blocking ¹	1. Jin, L., et al., 2004. J. Invest. Dermatol. 122:1175. PubMed
Human HLA-A,B,C	W6/32	Activation ^{1,2}	1. Turco, M.C. et al., 1988. J. Immunol. 141:2275. PubMed 2. Geppert, T.D. et al., 1989. J. Immunol. 142:3763. PubMed
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Human/Mouse Integrin β7	FIB504	Blocking ^{1,2}	1. Andrew, D. P., et al., 1994. J. Immunol. 153:3847. PubMed 2. Rott, L. S., et al., 1996. J. Immunol. 156:3727. PubMed
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Human KIR3DL1 (NKB1)	DX9	Restores NK cell cytotoxicity ^{1,2}	1. Bakker, A.B.H., et al., 1998. J. Immunol. 160:5239. PubMed 2. Valiante, N. M., et al., 1997. Immunity 7:739. PubMed
Human Lymphotoxin b Receptor (LT-bR)	31G4D8	Induction of apoptosis ^{1,2}	1. Chen, M-C., et al., 2003. J. Biol. Chem. 278:16073. PubMed 2. Personal communication.
Human MICA/MICB	6D4	Blocking ^{1,2}	1. Groh, V., et al., 1999. Proc. Natl. Acad. Sci. USA. 96: 6879. PubMed 2. Groh, V., et al., 2001. Nat. Immunol. 2:255. PubMed
Human NTB-A (NTBA)	NT-7	Block ^{1,2}	1. Ward, J., et al., 2007. Blood 110:1207. PubMed 2. Personal communication.
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