



11-623-C100

## Monoclonal Antibody to CD18 (mouse) Purified Antibody (0.1 mg)

<b>Clone:</b>	M18/2
<b>Isotype:</b>	Rat IgG2a
<b>Specificity:</b>	The rat monoclonal antibody M18/2 recognizes CD18 antigen (integrin beta2 subunit; beta2 integrin), a 95 kDa type I transmembrane protein expressed on all leukocytes.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Murine cytotoxic T cell glycoproteins
<b>Species Reactivity:</b>	Mouse
<b>Negative Species:</b>	Canine (Dog)
<b>Application:</b>	Flow Cytometry Recommended dilution: 1 µg/ml Immunoprecipitation Western Blotting Immunohistochemistry (paraffin sections) Immunohistochemistry (frozen sections) Functional Application Blocking or stimulation
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD18, integrin beta2 subunit, forms heterodimers with four types of CD11 molecule to constitute leukocyte (beta2) integrins: alphaLbeta2 (CD11a/CD18, LFA-1), alphaMbeta2 (CD11b/CD18, Mac-1, CR3), alphaXbeta2 (CD11c/CD18) and alphaDbeta2 (CD11d/CD18). In most cases, the response mediated by the integrin is a composite of the functions of its individual subunits. These integrins are essential for proper leukocyte migration, mediating intercellular contacts.

**For laboratory research only, not for drug, diagnostic or other use.**

**Antibodies****References:**

- \*Sanchez-Madrid F, Simon P, Thompson S, Springer TA: Mapping of antigenic and functional epitopes on the alpha- and beta-subunits of two related mouse glycoproteins involved in cell interactions, LFA-1 and Mac-1. *J Exp Med.* 1983 Aug 1;158(2):586-602.
- \*Blocking lymphoma invasiveness with a monoclonal antibody directed against the beta-chain of the leukocyte adhesion molecule (CD18). *J Immunol.* 1993 May 15;150(10):4466-77.
- \*Zahalka MA, Naor D: Beta 2-integrin dependent aggregate formation between LB T cell lymphoma and spleen cells: assessment of correlation with spleen invasiveness. *Int Immunol.* 1994 Jun;6(6):917-24.
- \*Watts GM, Beurskens FJ, Martin-Padura I, Ballantyne CM, Klickstein LB, Brenner MB, Lee DM: Manifestations of inflammatory arthritis are critically dependent on LFA-1. *J Immunol.* 2005 Mar 15;174(6):3668-75.
- \*Avni O, Pur Z, Yefenof E, Baniyash M: Complement receptor 3 of macrophages is associated with galectin-1-like protein. *J Immunol.* 1998 Jun 15;160(12):6151-8.
- \*Sakurai E, Taguchi H, Anand A, Ambati BK, Gragoudas ES, Miller JW, Adamis AP, Ambati J: Targeted disruption of the CD18 or ICAM-1 gene inhibits choroidal neovascularization. *Invest Ophthalmol Vis Sci.* 2003 Jun;44(6):2743-9.
- \*Cullere X, Lauterbach M, Tsuboi N, Mayadas TN: Neutrophil-selective CD18 silencing using RNA interference in vivo. *Blood.* 2008 Apr 1;111(7):3591-8.
- \*Barlow SC, Langston W, Matthews KM, Chidlow JH Jr, Kevil CG: CD18 deficiency protects against multiple low-dose streptozotocin-induced diabetes. *Am J Pathol.* 2004 Dec;165(6):1849-52.
- \*Varga G, Balkow S, Wild MK, Stadtbauer A, Krummen M, Rothoefl T, Higuchi T, Beissert S, Wethmar K, Scharffetter-Kochanek K, Vestweber D, Grabbe S: Active MAC-1 (CD11b/CD18) on DCs inhibits full T-cell activation. *Blood.* 2007 Jan 15;109(2):661-9.
- \*Abraham C, Miller J: Molecular mechanisms of IL-2 gene regulation following costimulation through LFA-1. *J Immunol.* 2001 Nov 1;167(9):5193-201.
- \*And many other.

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