

1F-623-C100

Monoclonal Antibody to CD18 (mouse) Fluorescein (FITC) conjugated (0.1 mg)

Clone:	M18/2
Isotype:	Rat IgG2a
Specificity:	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.
Regulatory Status:	RUO
Immunogen:	Murine cytotoxic T cell glycoproteins
Species Reactivity:	Mouse
Negative Species:	Canine (Dog)
Preparation:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.
Concentration:	0.5 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis. Suggested working concentration is 3 µg/ml. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO's term and conditions which are available at www.exbio.cz.

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

EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz