



11-211-C100

Monoclonal Antibody to CD11b Purified Antibody (0.1 mg)

Clone:	MEM-174
Isotype:	Mouse IgG2a
Specificity:	The antibody MEM-174 recognizes CD11b antigen (Mac-1 alpha), a 165-170 kDa type I transmembrane protein mainly expressed on monocytes, granulocytes and NK-cells. The CD11b mediates neutrophil and monocyte interactions with stimulated endothelium. HLDA VI; WS Code BP 310 HLDA VI; WS Code M 18
Regulatory Status:	RUO
Immunogen:	Human granulocytes
Species Reactivity:	Human
Application:	Flow Cytometry Recommended dilution: 1 µg/ml Positive control: Peripheral Blood Lymphocytes Immunoprecipitation Positive control: Granulocytes CD11b/CD18 transfectants Application note: Immunoprecipitation with the antibody MEM-174 was successfully performed using immuno-affinity sorbents (minicolumns). The final immunosorbent should contain 1-5 mg of antibody/1 ml of sorbent gel (e.g. agarose beads) It is recommended to stimulate positive control material by LPS 1-2 days before to achieve better expression of target antigen).
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD11b (integrin alphaM subunit) is a 165-170 kDa type I transmembrane glycoprotein that non-covalently associates with integrin beta2 subunit (CD18); expression of the CD11b chain on the cell surface requires the presence of the CD18 antigen. CD11b/CD18 integrin (Mac-1, CR3) is highly expressed on NK cells, neutrophils, monocytes and less on macrophages. CD11b/CD18 integrin is implicated in various adhesive interactions of monocytes, macrophages and granulocytes, facilitating their diapedesis, as well as it mediates the uptake of complement coated particles, serving as a receptor for the iC3b fragment of the third complement component.

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



Antibodies

- References:**
- *Hentzen ER, Neelamegham S, Kansas GS, Benanti JA, McIntire LV, Smith CW, Simon SI: Sequential binding of CD11a/CD18 and CD11b/CD18 defines neutrophil capture and stable adhesion to intercellular adhesion molecule-1. *Blood*. 2000 Feb 1;95(3):911-20.
 - *Lawrence PK, Srikumaran S: CD11b of *Ovis canadensis* and *Ovis aries*: molecular cloning and characterization. *Vet Immunol Immunopathol*. 2007 Oct 15;119(3-4):287-98.
 - *Akramiene D, Kondrotas A, Didziapetriene J, Kevelaitis E: Effects of beta-glucans on the immune system. *Medicina (Kaunas)*. 2007;43(8):597-606.
 - *Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).
 - *Drbal K, Moertelmaier M, Holzhauser C, Muhammad A, Fuertbauer E, Howorka S, Hinterberger M, Stockinger H, Schütz GJ: Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement. *Int Immunol*. 2007 May;19(5):675-84.
 - *Hasan S, Osickova A, Bumba L, Novák P, Sebo P, Osicka R: Interaction of *Bordetella* adenylate cyclase toxin with complement receptor 3 involves multivalent glycan binding. *FEBS Lett*. 2015 Jan 30;589(3):374-9.

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