

## Monoclonal Antibody to CD11b - FITC

<b>Alternate names:</b>	CD11 antigen-like family member B, CR-3 alpha chain, CR3A, Cell surface glycoprotein MAC-1 subunit alpha, ITGAM, Integrin alpha-M, Leukocyte adhesion receptor MO1, MAC1, Neutrophil adherence receptor
<b>Catalog No.:</b>	SM3007F
<b>Quantity:</b>	100 Tests
<b>Background:</b>	CD11b (integrin $\alpha$ M subunit) is a 165 kDa type I transmembrane glycoprotein that non-covalently associates with integrin $\beta$ 2 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.
<b>Uniprot ID:</b>	<a href="#">P11215</a>
<b>NCBI:</b>	<a href="#">NP_000623.2</a>
<b>GeneID:</b>	<a href="#">3684</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	MEM-174
<b>Immunogen:</b>	Human granulocytes
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Buffer System:</b> Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent <b>Label:</b> FITC – Conjugated with Fluorescein isothiocyanate under optimum conditions. The reagent is free of unconjugated
<b>Applications:</b>	Flow Cytometry (use 20 $\mu$ l to label 10e6 cells or 100 $\mu$ l whole blood). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	The antibody MEM-174 recognizes CD11b antigen (Mac-1), a 165 kDa transmembrane protein type 1 mainly expressed on monocytes, granulocytes and NK-cells. The CD11b mediates neutrophil and monocyte interactions with stimulated endothelium. <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

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Antibody Hotline - Technical Questions - Antibody Location Service  
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- General References:**
1. 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.
  2. 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.
  3. Akramiene D, Kondrotas A, Didziapetriene J, Kevelaitis E.: Effects of beta-glucans on the immune system. *Medicina (Kaunas)*. 2007;43(8):597-606.
  4. *Leukocyte Typing VI.*, Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).
  5. 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.

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