

Datasheet for ABIN93956
anti-CD11b antibody[Go to Product page](#)

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Overview

Quantity:	0.1 mg
Target:	CD11b (ITGAM)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD11b antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP)

Product Details

Immunogen:	Human granulocytes
Clone:	MEM-174
Isotype:	IgG2a
Specificity:	The antibody MEM-174 recognizes an extracellular epitope of 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.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CD11b (ITGAM)
Alternative Name:	CD11b (ITGAM Products)
Background:	<p>Integrin subunit alpha M,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.,Mac-1, Integrin alpha M, ITGAM, CR3A, MO1A, MAC1A</p>
Gene ID:	3684
UniProt:	P11215
Pathways:	Apoptosis , Activation of Innate immune Response , Toll-Like Receptors Cascades , Activated T Cell Proliferation

Application Details

Application Notes:	<p>Flow cytometry: Recommended dilution: 1 µg/mL, positive control: peripheral blood lymphocytes.</p> <p>Immunoprecipitation: Positive control: granulocytes, CD11b/CD18 transfectants.</p> <p>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.</p>
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

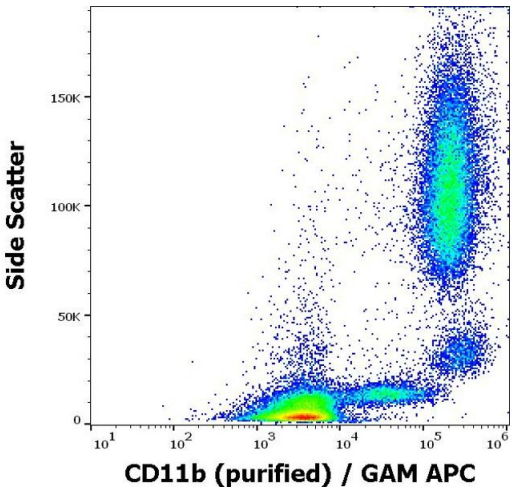
Handling

Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

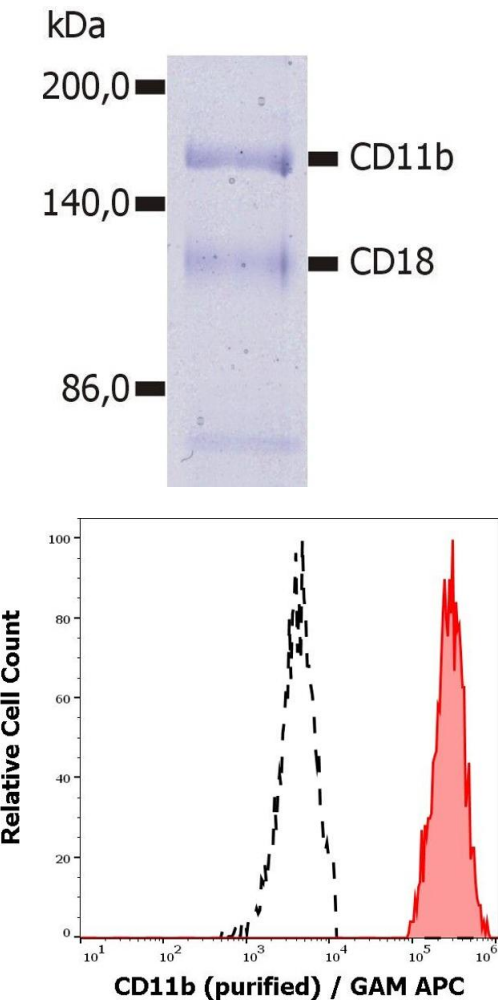
Product cited in:	<p>Hasan, Osickova, Bumba, Novák, Sebo, Osicka: "Interaction of Bordetella adenylate cyclase toxin with complement receptor 3 involves multivalent glycan binding." in: FEBS letters, Vol. 589 , Issue 3, pp. 374-9, (2015) (PubMed).</p> <p>Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, Howorka, Hinterberger, Stockinger, Schütz: "Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement." in: International immunology, Vol. 19, Issue 5, pp. 675-84, (2007) (PubMed).</p>
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Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD11b (MEM-174) purified antibody (concentration in sample 0,3 µg/mL, GAM APC).



Immunoprecipitation

Image 2. Immunoprecipitation of human CD11b/CD18 heterodimer from the lysate of washed PBMC isolated from healthy donor. Lysate was subjected to affinity column chromatography using anti-human CD11b (MEM-174) immunosorbent. Eluted immunoprecipitate was resolved on 7.5% SDS-PAGE and stained with Coomassie Blue.

Flow Cytometry

Image 3. Separation of human monocytes (red-filled) from CD11b negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD11b (MEM-174) purified antibody (concentration in sample 0,3 µg/mL, GAM APC).