Datasheet for ABIN457402

anti-CD11b antibody

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Overview

Quantity:	100 µg
Target:	CD11b (ITGAM)
Reactivity:	Human, Mouse, Rabbit, Non-Human Primate
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This CD11b antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Functional Studies (Func)

Product Details

Purpose:	Anti-Ms CD11b Purified Low Endotoxin
Immunogen:	B10 mouse spleen cells enriched for T cells
Clone:	M1-70
Isotype:	IgG2b
Specificity:	The rat monoclonal antibody M1/70 detects an extracellular epitope of CD11b (integrin alphaM subunit), a type I transmembrane protein mainly expressed on monocytes/macrophages, granulocytes and NK-cells, which associates with CD18 to form Mac-1 integrin that plays important role in cell-cell interactions.
Cross-Reactivity (Details):	Human, Non-Human Primates, Mouse, Rabbit
Purification:	Purified by protein-G affinity chromatography.

Product Details

Purity:	> 95 % (by SDS-PAGE)
Endotoxin Level:	Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.

Target Details

Target:	CD11b (ITGAM)
Alternative Name:	CD11b (ITGAM Products)
Background:	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
Gene ID:	16409
UniProt:	G5E8F1
Pathways:	Apoptosis, Activation of Innate immune Response, Toll-Like Receptors Cascades, Activated T Cell Proliferation

Application Details

Application Notes:	Functional application: In vitro blocking of CD11b. Flow cytometry: Recommended dilution: 1 μg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

Brickson, Ji, Schell, Olabisi, St Pierre Schneider, Best: "M1/70 attenuates blood-borne neutrophil oxidants, activation, and myofiber damage following stretch injury." in: **Journal of applied physiology (Bethesda, Md. : 1985)**, Vol. 95, Issue 3, pp. 969-76, (2003) (PubMed).

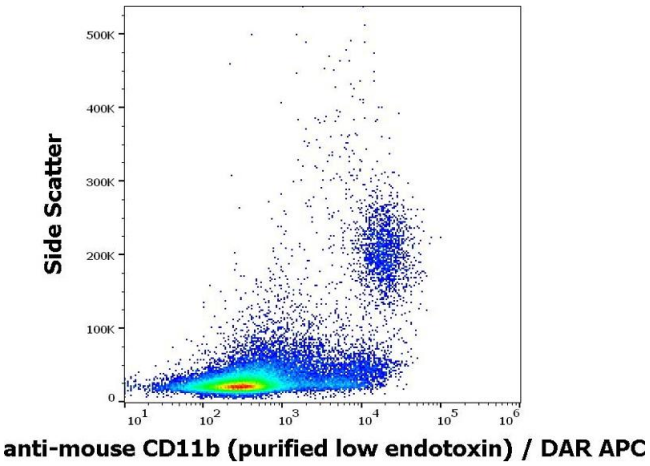
Dembic, Schenck, Bogen: "Dendritic cells purified from myeloma are primed with tumor-specific antigen (idiotype) and activate CD4+ T cells." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 97, Issue 6, pp. 2697-702, (2000) (PubMed).

Welt, Edelman, Simon, Rogers: "Neutrophil, not macrophage, infiltration precedes neointimal thickening in balloon-injured arteries." in: **Arteriosclerosis, thrombosis, and vascular biology**, Vol. 20, Issue 12, pp. 2553-8, (2000) (PubMed).

Whiteland, Nicholls, Shimeld, Easty, Williams, Hill: "Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies." in: **The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society**, Vol. 43, Issue 3, pp. 313-20, (1995) (PubMed).

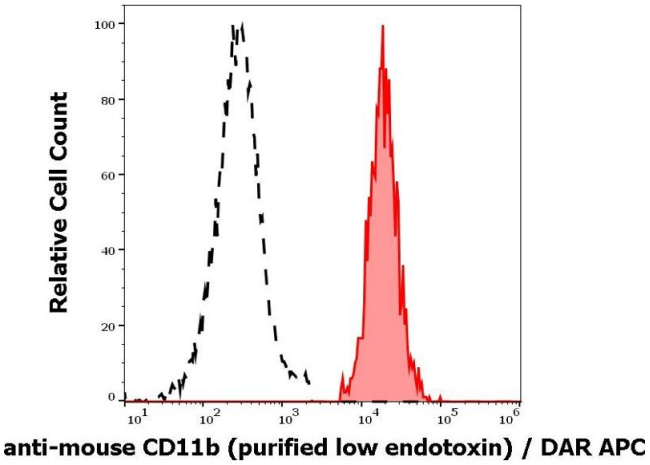
Ault, Springer: "Cross-reaction of a rat-anti-mouse phagocyte-specific monoclonal antibody (anti-Mac-1) with human monocytes and natural killer cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 126, Issue 1, pp. 359-64, (1981) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of murine splenocyte suspension stained using anti-mouse CD11b (M1/70) purified antibody (low endotoxin, concentration in sample 0,6 µg/mL) DAR APC.



Flow Cytometry

Image 2. Separation of murine CD11b positive myeloid cells (red-filled) from murine CD11b negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension stained using anti-mouse CD11b (M1/70) purified antibody (low endotoxin, concentration in sample 0,6 µg/mL) DAR APC.