Datasheet for ABIN457346

anti-CD11b antibody (FITC)

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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 conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Ms CD11b FITC
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 antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

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:	Flow cytometry: Recommended dilution: 1-3 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 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 Advice:	**Do not freeze.** Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Product cited in:

Takagi, Numazaki, Kajiwara, Abe, Ishii, Kato, Kojima: "Cooperation of specific ICAM-3 grabbing nonintegrin-related 1 (SIGNR1) and complement receptor type 3 (CR3) in the uptake of oligomannose-coated liposomes by macrophages." in: **Glycobiology**, Vol. 19, Issue 3, pp. 258-66, (2009) (PubMed).

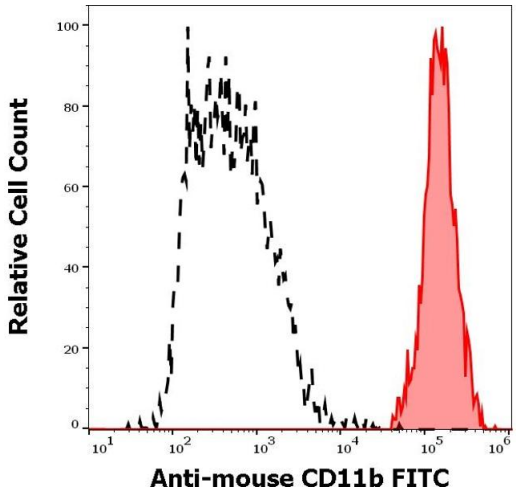
Brickson, Ji, Schell, Olabisi, St Pierre Schneider, Best: "M1/70 attenuates blood-borne neutrophil oxidants, activation, and myofiber damage following stretch injury." in: **Journal of applied physiology (Bethesda, Md. : 1985)**, Vol. 95, Issue 3, pp. 969-76, (2003) (PubMed).

Zhang, McCormick, Desai, Wu, Gilliam: "Murine sclerodermatous graft-versus-host disease, a model for human scleroderma: cutaneous cytokines, chemokines, and immune cell activation." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 168, Issue 6, pp. 3088-98, (2002) (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).

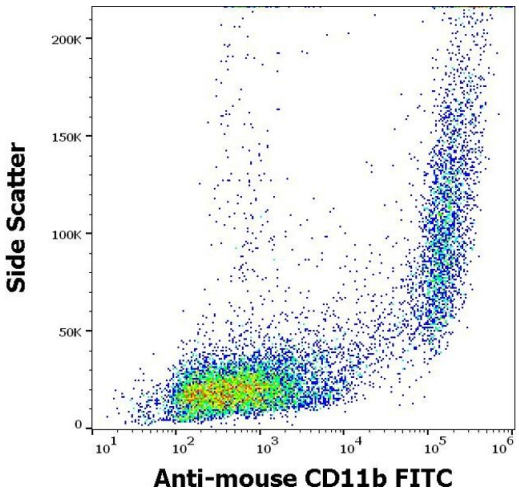
Welt, Edelman, Simon, Rogers: "Neutrophil, not macrophage, infiltration precedes neointimal thickening in balloon-injured arteries." in: **Arteriosclerosis, thrombosis, and vascular biology**, Vol. 20, Issue 12, pp. 2553-8, (2000) (PubMed).

There are more publications referencing this product on: Product page



Flow Cytometry

Image 1. Separation of mouse CD11b positive myeloid cells (red-filled) from murine lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of murine peritoneal fluid cells stained using anti-mouse CD11b (M1/70) FITC antibody (concentration in sample 0,5 µg/mL).



Flow Cytometry

Image 2. Flow cytometry surface staining pattern of murine peritoneal fluid cells stained using anti-mouse CD11b (M1/70) FITC antibody (concentration in sample 0,5 µg/mL).