

Datasheet for ABIN2749012
anti-CD11b antibody



[Go to Product page](#)

2 Images

3 Publications

Overview

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

Product Details

Purpose:	Anti-Hu CD11b Purified Low Endotoxin
Immunogen:	Rheumatoid synovial cells and human monocytes.
Clone:	ICRF44
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody ICRF44 recognizes an extracellular epitope of CD11b (Mac-1α), a 165-170 kDa type 1 transmembrane protein mainly expressed on monocytes, granulocytes and NK-cells.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Product Details

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: 3684

UniProt: [P11215](#)

Pathways: [Apoptosis](#), [Activation of Innate immune Response](#), [Toll-Like Receptors Cascades](#), [Activated T Cell Proliferation](#)

Application Details

Application Notes: Functional application: Blocking of granulocyte activation.

Flow cytometry: Recommended dilution: 1-12 μg/mL

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

Buffer: Phosphate buffered saline (PBS), pH 7.4

Storage: 4 °C

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

Publications

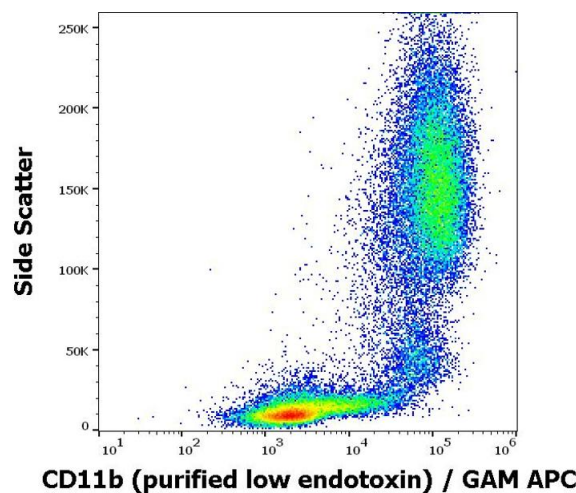
Product cited in: Tieu, Lee, Sun, Lejeune, Recinos, Ju, Spratt, Guo, Milewicz, Tilton, Brasier: "An adventitial IL-

6/MCP1 amplification loop accelerates macrophage-mediated vascular inflammation leading to aortic dissection in mice." in: **The Journal of clinical investigation**, Vol. 119, Issue 12, pp. 3637-51, (2009) ([PubMed](#)).

Masten, Olson, Tarleton, Rund, Schuyler, Mehran, Archibeque, Lipscomb: "Characterization of myeloid and plasmacytoid dendritic cells in human lung." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 177, Issue 11, pp. 7784-93, (2006) ([PubMed](#)).

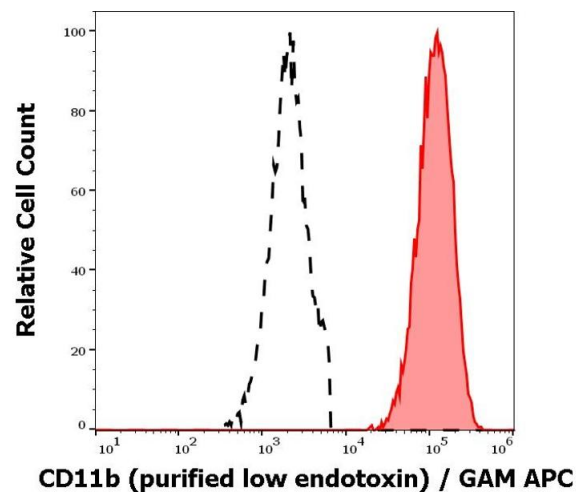
Hua, Sakamoto, Nagaoka: "Inhibitory actions of glucosamine, a therapeutic agent for osteoarthritis, on the functions of neutrophils." in: **Journal of leukocyte biology**, Vol. 71, Issue 4, pp. 632-40, (2002) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD11b (ICRF44) purified antibody (low endotoxin, concentration in sample 6 µg/mL) GAM APC.



Flow Cytometry

Image 2. Separation of human neutrophil granulocytes (red-filled) from CD11b negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD11b (ICRF44) purified antibody (low endotoxin, concentration in sample 6 µg/mL) GAM APC.