Datasheet for ABIN2749103

anti-CD11b antibody (PE)

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Overview

Quantity:	100 tests
Target:	CD11b (ITGAM)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD11b antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Hu CD11b PE
Immunogen:	Rheumatoid synovial cells and human monocytes.
Clone:	ICRF44
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody ICRF44 recognizes an extracellular epitope of CD11b (Mac-1alpha), 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 antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. 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:	3684
UniProt:	P11215
Pathways:	Apoptosis, Activation of Innate immune Response, Toll-Like Receptors Cascades, Activated T Cell Proliferation

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing 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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

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

Publications

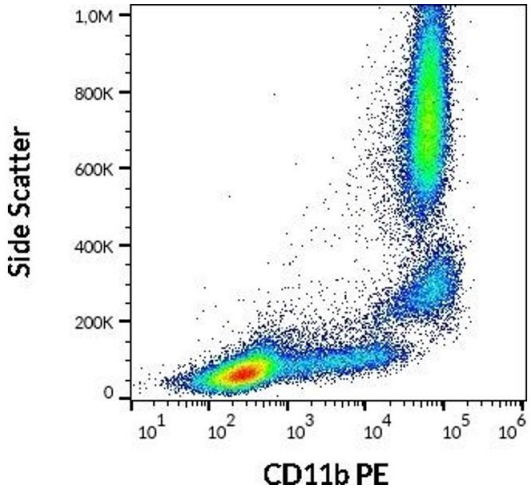
6/MCP1 amplification loop accelerates macrophage-mediated vascular inflammation leading to aortic dissection in mice." in: **The Journal of clinical investigation**, Vol. 119, Issue 12, pp. 3637-51, (2009) (PubMed).

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).

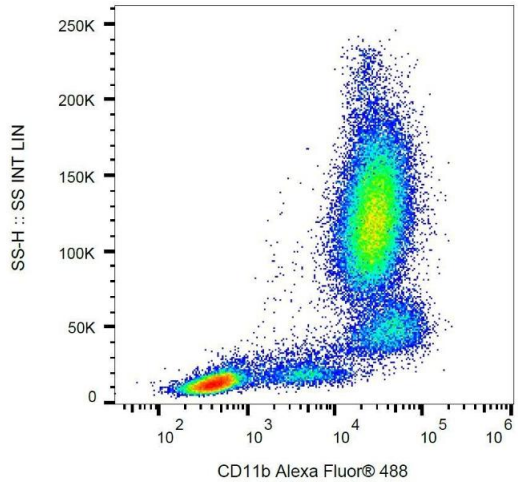
Sánchez-Torres, García-Romo, Cornejo-Cortés, Rivas-Carvalho, Sánchez-Schmitz: "CD16+ and CD16- human blood monocyte subsets differentiate in vitro to dendritic cells with different abilities to stimulate CD4+ T cells." in: **International immunology**, Vol. 13, Issue 12, pp. 1571-81, (2001) (PubMed).

Images



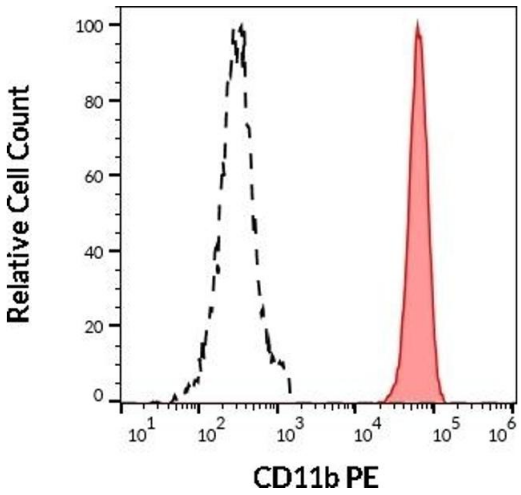
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD11b (ICRF44) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining of human peripheral blood with anti-CD11b (ICRF44) Alexa Fluor® 488.



Flow Cytometry

Image 3. 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) PE antibody (10 µL reagent / 100 µL of peripheral whole blood).