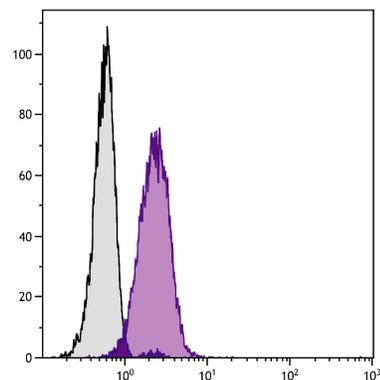




Mouse Anti-Human CD11c

Cat. No.	Format	Size
9551-01	Purified (UNLB)	0.1 mg
9551-02	Fluorescein (FITC)	100 tests
9551-02S	Fluorescein (FITC)	25 tests
9551-08	Biotin (BIOT)	100 tests
9551-09	R-phycoerythrin (PE)	100 tests
9551-09S	R-phycoerythrin (PE)	25 tests
9551-26	Pacific Blue™ (PACBLU)	100 tests
9551-27	Alexa Fluor® 700 (AF700)	100 tests
9551-30	Alexa Fluor® 488 (AF488)	100 tests
9551-31	Alexa Fluor® 647 (AF647)	100 tests



Human peripheral blood granulocytes were stained with Mouse Anti-Human CD11c-PACBLU (SB Cat. No. 9551-26).

Overview

Clone	3.9
Isotype	Mouse (BALB/c) IgG ₁ κ
Immunogen	Rheumatoid synovial cells and human monocytes
Specificity	Human/Rhesus/Cynomolgus CD11c; Mr 150 kDa
Alternate Name(s)	Integrin α _x , Axb2, CR4, p150,95
Workshop	III 278, 707; IV M66; V S144; VI Ref

Description

CD11c is a 150 kDa adhesion glycoprotein that associates with β₂ integrin to form the CD11c/CD18 heterodimer that binds CD54 (ICAM-1) and fibrinogen. It is expressed on NK cells, a subset of B and T cells, granulocytes, monocytes, and macrophages. It functions in cytotoxic T cell killing and in neutrophil and monocyte adhesion to endothelium.

Applications

FC – Quality tested ^{2,5-8}
 IHC-FS – Reported in literature ²
 IP – Reported in literature ¹
 Block – Reported in literature ^{3,4}

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 μg/10 ⁶ cells
	FITC, BIOT, PE, PACBLU, AF488, AF647, and AF700 conjugates	10 μL/10 ⁶ cells

For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL.

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Alexa Fluor[®] 488 (AF488), Alexa Fluor[®] 647 (AF647), Alexa Fluor[®] 700 (AF700), and Pacific Blue[™] (PACBLU) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- Protect fluorochrome conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

1. Malhotra V, Hogg N, Sim RB. Ligand binding by the p150,95 antigen of U937 monocytic cells: properties in common with complement receptor type 3 (CR3). *Eur J Immunol.* 1986;16:1117-23. (IP)
2. Tanaka M, Nagai T, Tsuneyoshi Y, Sunahara N, Matsuda T, Nakamura T, et al. Expansion of a unique macrophage subset in rheumatoid arthritis synovial lining layer. *Clin Exp Immunol.* 2008;154:38-47. (FC, IHC-FS)
3. Nasr AB, Haithcoat J, Masterson JE, Gunn JS, Eaves-Pyles T, Klimpel GR. Critical role for serum opsonins and complement receptors CR3 (CD11b/CD18) and CR4 (CD11c/CD18) in phagocytosis of *Francisella tularensis* by human dendritic cells (DC): uptake of *Francisella* leads to activation of immature DC and intracellular survival of the bacteria. *J Leukoc Biol.* 2006;80:774-86. (Block)
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5. Shankar SP, Babensee JE. Comparative characterization of cultures of primary human macrophages or dendritic cells relevant to biomaterial studies. *J Biomed Mater Res A.* 2010;92:791-800. (FC)
6. Nishimura T, Onda M, Takao S. CD4⁺ CD25⁺ regulatory T cells suppressed the indirect xenogeneic immune response mediated by porcine epithelial cell pulsed dendritic cells. *Xenotransplantation.* 2010;17:313-23. (FC)
7. Moreau A, Hill M, Thébault P, Deschamps JY, Chiffolleau E, Chauveau C, et al. Tolerogenic dendritic cells actively inhibit T cells through heme oxygenase-1 in rodents and in nonhuman primates. *FASEB J.* 2009;23:3070-7. (FC, Cynomolgus Reactivity)
8. O'Doherty U, Ignatius R, Bhardwaj N, Pope M. Generation of monocyte-derived dendritic cells from precursors in rhesus macaque blood. *J Immunol Methods.* 1997;207:185-94. (FC, Rhesus Reactivity)

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