

## Monoclonal Antibody to CD11b - PE

<b>Alternate names:</b>	CD11 antigen-like family member B, CR-3 alpha chain, CR3A, Cell surface glycoprotein MAC-1 subunit alpha, ITGAM, Integrin alpha-M, Leukocyte adhesion receptor MO1, MAC1, Neutrophil adherence receptor
<b>Catalog No.:</b>	AM05208RP-N
<b>Quantity:</b>	100 Tests
<b>Concentration:</b>	Lot specific
<b>Background:</b>	(Mac-1), CD11b/CD18 complex is a leukocyte adhesion receptor to intercellular adhesion molecules (ICAM's). CR3 alpha chain (M.W. 165,000) is on virtually all peripheral blood neutrophils, eosinophils, monocytes and approximately 30% of peripheral blood lymphocytes.
<b>Uniprot ID:</b>	<a href="#">P11215</a>
<b>NCBI:</b>	<a href="#">NP_000623.2</a>
<b>GeneID:</b>	<a href="#">3684</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	F6.2
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction <b>Purification:</b> Protein A/G Chromatography <b>Buffer System:</b> Sterile filtered PBS containing 0.2% protein carrier and 0.08% Sodium Azide as preservative <b>Label:</b> PE
<b>Applications:</b>	<b>Flow Cytometry.</b> Monitoring of subsets in peripheral blood. Characterization of leukemias and lymphomas. Analysis of CTL-mediated cytotoxicity. Studies of transplantation rejection. Functional studies of cell adhesion molecules. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	<b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b> Shelf life: one year from despatch.
<b>General Readings:</b>	1. Arnaout MA. Structure and function of the leukocyte adhesion molecules CD11/CD18. Blood. 1990 Mar 1;75(5):1037-50. PubMed PMID: 1968349.

2. Leukocyte adhesion to endothelial cells. Wautier, J.L., Sediadi, H., Vilette, d., Weill, D., Wautier, M.P.. *Biorheology* . 1990;27(3-4): 425-32.
3. Babcock GF, Alexander JW, Warden GD. Flow cytometric analysis of neutrophil subsets in thermally injured patients developing infection. *Clin Immunol Immunopathol*. 1990 Jan;54(1):117-25. PubMed PMID: 1967160.
4. Leukocyte Adhesion Deficiency: an inherited defect in Mac-1, LFA-1, and p150,95 glycoproteins. Anderson, D.C. and Springer, T.A.. *Ann. Rev. Med.* 1987;38:175.
5. Merrill JT, Slade SG, Weissmann G, Winchester R, Buyon JP. Two pathways of CD11b/CD18-mediated neutrophil aggregation with different involvement of protein kinase C-dependent phosphorylation. *J Immunol*. 1990 Oct 15;145(8):2608-15. PubMed PMID: 1976698.
6. Richter J, Ng-Sikorski J, Olsson I, Andersson T. Tumor necrosis factor-induced degranulation in adherent human neutrophils is dependent on CD11b/CD18-integrin-triggered oscillations of cytosolic free Ca<sup>2+</sup>. *Proc Natl Acad Sci U S A*. 1990 Dec;87(23):9472-6. PubMed PMID: 1979172.

**Protocols:****PBMC:**

Add 10 ul of MAB/10e6 PBMC in 100 ul PBS.

Mix gently and incubate for 15 minutes at 2-8°C.

Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

**WHOLE BLOOD:**

Add 10 ul of MAB/100 ul of whole blood.

Mix gently and incubate for 15 minutes at room temperature (20°C).

Lyse the whole blood.

Wash once with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.

See instrument manufacturers instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.

**Pictures:**

**Figure 1.** Peripheral Blood Lymphocytes stained with PE Labeled anti-CD11b Antibody Cat.-No AM05208RP-N.

