

**PE-Cy5 Anti-Human/Mouse CD11b (M1/70) Antibody**  
**Catalog # ATB10225****Specification****PE-Cy5 Anti-Human/Mouse CD11b (M1/70) Antibody - Product Information**

Application	FC
Isotype	Rat IgG2b, kappa
Concentration	0.2 mg/mL
Reactivity	Human, Mouse
Formulation	10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, 0.09% NaN <sub>3</sub> , 0.1% gelatin, pH7.2
Host	Rat

**PE-Cy5 Anti-Human/Mouse CD11b (M1/70) Antibody - Additional Information**

Gene ID	3684
Gene Name	ITGAM
<b>Alternative Name(s)</b>	
Mac-1, integrin $\alpha$ M, CR3, ITGAM	

**Format**  
PE-Cy5**Preparation**

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

**Application Notes**

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system.

**Storage Conditions**

2-8°C protected from light

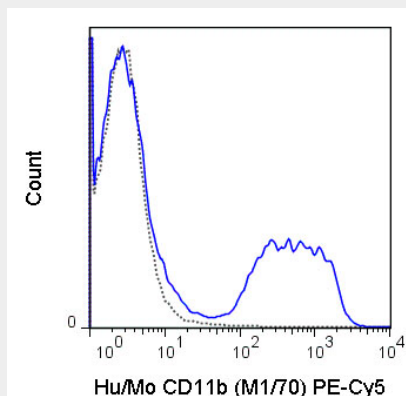
**PE-Cy5 Anti-Human/Mouse CD11b (M1/70) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

## PE-Cy5 Anti-Human/Mouse CD11b (M1/70) Antibody - Images



C57Bl/6 bone marrow cells were stained with 0.125 ug PE-Cy5 Anti-Hu/Mo CD11b (ATB10225) (solid line) or 0.125 ug PE-Cy5 Rat IgG2b isotype control (dashed line).

## PE-Cy5 Anti-Human/Mouse CD11b (M1/70) Antibody - Background

The M1/70 antibody reacts with human and mouse CD11b, also known as integrin alpha M. This 165-170 kDa cell surface glycoprotein is part of a family of integrin receptors that mediate adhesion between cells (cell-cell) and components of the extracellular matrix, e.g. fibrinogen (cell-matrix). In addition, integrins are active signaling receptors which recruit leukocytes to inflammatory sites and promote cell activation. Complete, functional integrin receptors consist of distinct combinations of integrin chains which are differentially expressed. Integrin alpha M (CD11b) assembles with Integrin beta-2 (CD18) into a receptor known as Macrophage Antigen-1 (Mac-1) or complement receptor type 3 (CR3). This receptor binds and induces intracellular signaling through ICAM-1 on endothelial cells and can also facilitate removal of iC3b bearing foreign cells. The M1/70 antibody is widely used as a marker for CD11b expression on mouse macrophages, granulocytes, neutrophils, and NK cells. The antibody is also reported to be cross-reactive for Rhesus macaque CD11b.