

violetFluor™ 450 Anti-Human/Mouse CD11b (M1/70) Antibody
Catalog # ATB10347

Specification

violetFluor™ 450 Anti-Human/Mouse CD11b (M1/70) Antibody - Product Information

Application	FC
Isotype	Rat IgG2b, kappa
Reactivity	Human, Mouse
Formulation	10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 0.1% gelatin, pH7.2

violetFluor™ 450 Anti-Human/Mouse CD11b (M1/70) Antibody - Additional Information

Gene ID	3684
Gene Name	ITGAM
Alternative Name(s)	
Mac-1, integrin α M, CR3, ITGAM	

Format
violetFluor™ 450

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. violetFluor™ 450 dye is excited by the violet (405 nm) laser and has a peak emission of 450 nm. The most common band pass filters for this dye are 440/40 or 450/50. violetFluor™ 450 can be used as an alternative for Pacific Blue®, BD Horizon™ V450 or eFluor® 450.

Storage Conditions

2-8°C protected from light

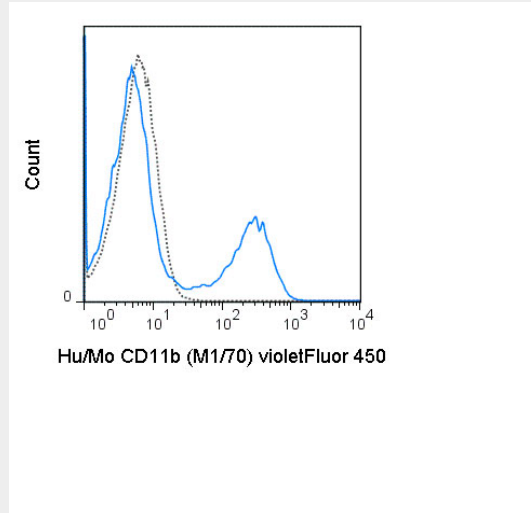
violetFluor™ 450 Anti-Human/Mouse CD11b (M1/70) Antibody - Protocols

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

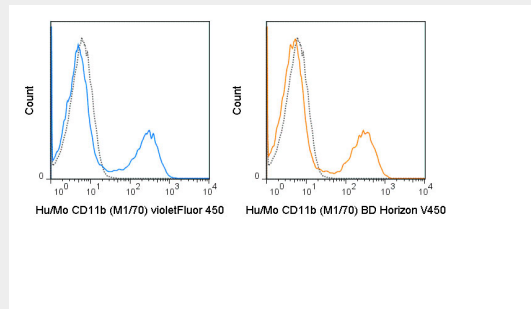
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

violetFluor™ 450 Anti-Human/Mouse CD11b (M1/70) Antibody - Images



C57Bl/6 bone marrow cells were stained with 0.125 ug violetFluor 450 Anti-Hu/Mo CD11b (ATB10347) (solid line) or 0.125 ug violetFluor 450 Rat IgG2b isotype control (dashed line).



C57Bl/6 bone marrow cells were stained with violetFluor 450 Anti-Human/Mouse CD11b (M1/70) manufactured by Tonbo Biosciences (left panel) or Horizon V450 Anti-Mouse/Human CD11b (M1/70) manufactured by BD Biosciences (right panel).

violetFluor™ 450 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.