

redFluor™ 710 Anti-Human/Mouse CD11b (M1/70) Antibody
Catalog # ATB10392**Specification****redFluor™ 710 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 ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 0.1% gelatin, pH7.2
Host	Rat

redFluor™ 710 Anti-Human/Mouse CD11b (M1/70) Antibody - Additional Information

Gene ID	3684
Gene Name	ITGAM
Format	
redFluor™ 710	

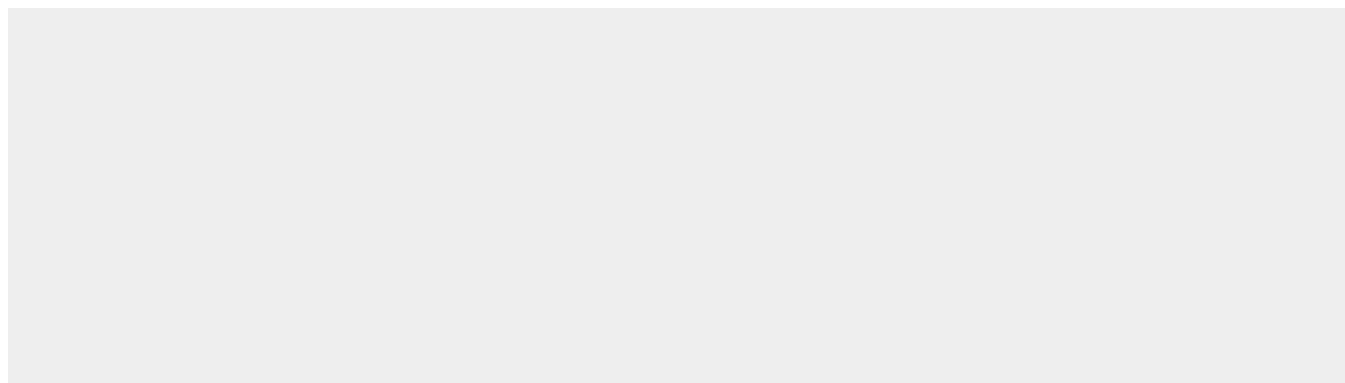
Storage Conditions

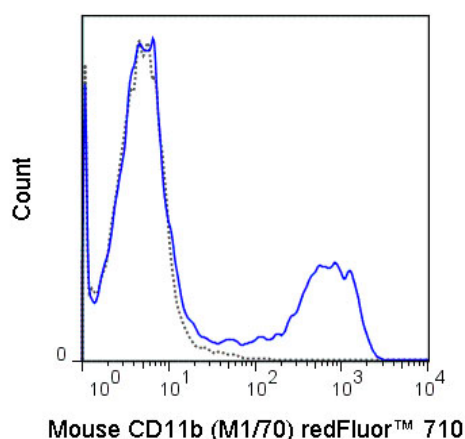
2-8°C protected from light

redFluor™ 710 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](#)

redFluor™ 710 Anti-Human/Mouse CD11b (M1/70) Antibody - Images



C57Bl/6 bone marrow cells were stained with 0.25 ug redFluor 710 Anti-Hu/Mo CD11b (ATB10392) (solid line) or 0.25 ug redFluor 710 Rat IgG2b isotype control (dashed line).

redFluor™ 710 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.

redFluor™ 710 Anti-Human/Mouse CD11b (M1/70) Antibody - References

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Grewal JS, Pilgrim MJ, Grewal S, Kasman L, Werner P, Bruorton ME, London SD, and London L. 2011. *FASEB J*. 25:1680-1696. (Immunofluorescence microscopy – frozen tissue)

Kim W-K, Sun Y, Do H, Autissier P, Halpern EF, Piatak M, Lifson JD, Burdo TH, McGrath MS, and Williams K. 2010. *J. Leukoc. Biol*. 87: 557-567. (Flow Cytometry – Rhesus macaque)

Roland CL, Dineen SP, Lynn KD, Sullivan LA, Dellinger MT, Sadegh L, Sullivan JP, Shames DS, and Brekken RA. 2009. *Mol. Cancer Ther*. 8:1761-1771. (Immunofluorescence microscopy – frozen tissue)

Sorg H, Lorch B, Jaster R, Fitzner B, Ibrahim S, Holzhueter S, Nizze H, and Vollmar B. 2008. *Am. J. Physiol. Gastrointest. Liver Physiol*. 295: G1274-1280. (Immunohistochemistry – formalin-fixed paraffin embedded tissue)

Kim DD, Miwa T, Kimura Y, Schwendener RA, van Lookeren Campagne M, and Song W-C. 2008. Blood. 112:1109-1119. (in vivo blocking)

Ou R, Zhang M, Huang L, Flavell RA, Koni PA, and Moskophidis D. 2008. J. Virol. 82:2952-2965. (Immunohistochemistry - OCT embedded frozen tissue)

Nutt SL, Metcalf D, D'Amico A, Polli M, and Wu L. 2005. J. Exp. Med. 201:221-231. (Immunomagnetic bead depletion)

Whiteland JL, Nicholls SM, Shimeld C, Easty DL, Williams NA, and Hill TJ. 1995. J. Histochem. Cytochem. 43:313-320. (Immunohistochemistry - frozen tissue, paraffin embedded tissue)

Miller LJ, Schwarting R, and Springer TA. 1986. J. Immunol. 137:2891-2900. (Immunoprecipitation)