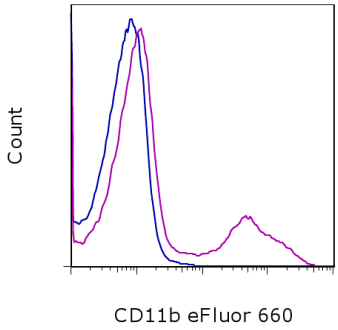
Anti-Mouse CD11b eFluor® 660 (Alexa Fluor® 647 Replacement)

Catalog Number: 50-0112
Also known as: Integrin alpha M
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57Bl/6 bone marrow cells with 0.03 ug of Rat IgG2b Isotype Control eFluor® 660 (cat. 50-4031) (blue histogram) or 0.03 ug of Anti-Mouse CD11b eFluor® 660 (purple histogram). Cells in the large scatter population were used for analysis.

Product Information

Contents: Anti-Mouse CD11b eFluor® 660 (Alexa Fluor® 647 Replacement)
REF **Catalog Number:** 50-0112
Clone: M1/70
Concentration: 0.2 mg/mL
Host/Isotype: Rat IgG2b, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial
Contains sodium azide

Description

The M1/70 monoclonal antibody reacts with mouse CD11b, the 165-170 kDa integrin alphaM. CD11b non-covalently associates with CD18 to form alphaM-beta2 integrin (Mac-1) and binds to CD54 (ICAM-1), C3bi, and fibrinogen. Mac-1 is expressed by macrophages, NK cells, granulocytes, activated lymphocytes and mouse B-1 cells in the peritoneal cavity. M1/70 is also cross-reactive to human CD11b, and can be used for the detection of this antigen on human peripheral blood monocytes, granulocytes, and a subset of NK cells. Through interactions with its ligands, CD11b participates in adhesive cell interactions.

Applications Reported

This M1/70 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This M1/70 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 0.06 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.

References

Zhang Y, McCormick LL, et al. 2002. Murine sclerodermatous graft-versus-host disease, a model for human scleroderma: cutaneous cytokines, chemokines, and immune cell activation. J Immunol. 168(6):3088-98. (IHC frozen, PubMed)

Dembic Z, Schenck K, and Bogen B. 2000. Dendritic cells purified from myeloma are primed with tumor-specific antigen (idiotype) and activate CD4+ T cells. Proc Natl Acad Sci U S A. 97(6):2697-702. (IHC frozen, PubMed)

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Whiteland JL, Nicholls SM, et al. 1995. Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. J Histochem Cytochem. 43(3):313-20. (IHC paraffin, PubMed)

Sanchez-Madrid, F., P. Simon, et al. 1983. Mapping of antigenic and functional epitopes on the alpha- and beta-subunits of two related mouse glycoproteins involved in cell interactions, LFA-1 and Mac-1. J Exp Med 158(2): 586-602.

Ault KA and Springer TA. 1981. Cross-reaction of a rat-anti-mouse phagocyte-specific monoclonal antibody (anti-Mac-1) with human monocytes and natural killer cells. J Immunol. 126(1):359-64. (cross-reactivity to human, PubMed)

Springer, T., G. Galfre, et al. 1978. Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens. Eur J Immunol 8(8): 539-51.

Springer, T., G. Galfre, et al. 1979. Mac-1: a macrophage differentiation antigen identified by monoclonal antibody. Eur J Immunol 9(4): 301-6.

Related Products
50-4031 Rat IgG2b Isotype Control eFluor® 660

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