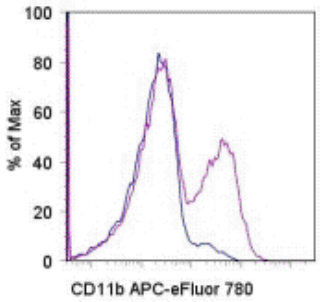
Anti-Mouse CD11b APC-eFluor® 780

Catalog Number: 47-0112
Also Known As: Integrin alpha M, ITGAM, Mac-1 alpha (Mac1A), Complement Receptor 3 alpha (CR3A)
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57BL/6 bone marrow cells with 0.06 ug of Rat IgG2b kappa Isotype Control APC-eFluor® 780 (cat. 47-4031) (blue histogram) or 0.06 ug of Anti-Mouse CD11b APC-eFluor® 780 (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD11b APC-eFluor® 780
REF **Catalog Number:** 47-0112
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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The M1/70 monoclonal antibody reacts with mouse CD11b, the 165-170 kDa integrin α_M. CD11b non-covalently associates with CD18 to form $\alpha_M\beta_2$ 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 0.125 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.

APC-eFluor® emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.

Light sensitivity: Tandem is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

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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)

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)

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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
12-4801 Anti-Mouse F4/80 Antigen PE (BM8)
47-4031 Rat IgG2b K Isotype Control APC-eFluor® 780
93-0088 Anti-Human CD8a eFluor® 605NC (RPA-T8)

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