

## Anti-Mouse CD11b PE-Cyanine7

**Catalog Number:** 25-0112

**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.**

### Product Information

**Contents:** Anti-Mouse CD11b PE-Cyanine7

 **Catalog Number:** 25-0112

**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.



 **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  $\alpha_M$ . 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 splenocyte and bone marrow cell suspensions. This can be used at less than or equal to 0.125  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. 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.

**Light sensitivity: This tandem dye 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  $\mu$ L cell sample + 100  $\mu$ L 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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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

25-4031 Rat IgG2b K Isotype Control PE-Cyanine7

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