

Anti-Mouse CD11b eFluor® 650NC (for IHC/ICC)

Catalog Number: IH95-0112

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 eFluor® 650NC (for IHC/ICC)
Catalog Number: IH95-0112
Clone: M1/70
Host/Isotype: Rat IgG2a, 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.

Batch Code: Refer to vial

Use By: Refer to vial

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 immunohistochemical staining of frozen tissue sections (IHC-F) and immunocytochemistry (ICC).

Applications Tested

This M1/70 antibody has been tested by immunohistology of frozen mouse spleen using the IHC/ICC Blocking Buffer - Low Protein (cat. 00-4953). This antibody can be used at 1:100.

For answers to additional questions refer to for IHC/ICC protocols and eFluor Nanocrystal Frequently Asked Questions

Applications: This product has been optimized for use in immunohistochemistry and Immunocytochemistry. We do not recommend its use in flow cytometry.

Filter Recommendation: When using this eFluor® 650NC antibody conjugate, we recommend a filter that will capture the 650 emission wavelength. A standard Alexa Fluor® 647 filter is acceptable, although other filters that narrow the emission would be more suitable when complexing with additional eFluor® nanocrystal conjugates. Please refer to Technical Support FAQ for more information.

Buffer Recommendation: We recommend the use of TBS-based solutions when performing IHC/ICC with eFluor® NC conjugated antibodies. We offer several products: IHC /ICC Blocking Buffer - Low Protein (cat. 00-4953), and IHC /ICC Blocking Buffer – High Protein (cat. 00-4952) which is optimal when staining FFPE sections or when using eFluor® nanocrystal conjugates to nuclear targets.

Mounting Recommendation: For optimal results, we recommend the use of Fluoromount-G™ (cat. 00-4958) when mounting slides.

References

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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)

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)

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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

00-4953 IHC /ICC Blocking Buffer - Low Protein

00-4958 Fluoromount-G™

Legal

Under patent number: US 7,939,170 and additional pending patent application(s)

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