TECHNICAL DATA SHEET

Purified Anti-Human/Mouse CD11b (M1/70)

Catalog Number: 70-0112

PRODUCT INFORMATION

Contents: Purified Anti-Human/Mouse CD11b (M1/70)

Isotype: Rat IgG2b, kappa

Concentration: 0.5 mg/mL

Clone: M1/70

Reactivity: Human, Mouse

Formulation: 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, pH7.2

DESCRIPTION

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.

PREPARATION & STORAGE

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

APPLICATION NOTES

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

REFERENCES

Lefort CT, Rossaint J, Moser M, Petrich BG, Zarbock A, Monkley SJ, Critchley DR, Ginsberg MH, Fassler R, and Ley K. 2012. Blood. 119:4275-4282. (in vitro blocking)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. Physio. 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)

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