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Datasheet

ITGB2 monoclonal antibody, clone MEM-48 (FITC)

Catalog Number: MAB4597

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native ITGB2.

Clone Name: MEM-48

Immunogen: Native purified ITGB2 from leukocytes of patient suffering from LGL-type leukaemia.

Host: Mouse

Reactivity: Human

Applications: Flow Cyt
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: This antibody MEM-48 recognizes an epitope involving residues 534-546 in cysteine-rich repeat 3 of the CD18 antigen (integrin b2 subunit; b2 integrin). CD18 is a 90-95 KDa type I transmembrane protein expressed on all leukocytes.

Form: Liquid

Conjugation: FITC

Isotype: IgG1

Recommend Usage: Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.2% BSA, 0.09% sodium azide)

Storage Instruction: Store in the dark at 4°C. Do not freeze.
Avoid prolonged exposure to light.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 3689

Gene Symbol: ITGB2

Gene Alias: CD18, LAD, LCAMB, LFA-1, MAC-1, MF17, MFI7

Gene Summary: The product of this gene belongs to the integrin beta chain family of proteins. Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. This gene encodes the integrin beta chain beta 2. A given chain may combine with multiple partners resulting in different integrins. For example, beta 2 combines with the alpha L chain to form the integrin LFA-1, and combines with the alpha M chain to form the integrin Mac-1. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling. Defects in this gene are the cause of leukocyte adhesion deficiency type I (LAD1). Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq]

References:

1. Monomeric expression of bovine beta2-integrin subunits reveals their role in Mannheimia haemolytica leukotoxin-induced biological effects. Dassanayake RP, Maheswaran SK, Srikumaran S. Infect Immun. 2007 Oct;75(10):5004-10. Epub 2007 Aug 13.
2. Association of the CD59 and CD55 cell surface glycoproteins with other membrane molecules. Stefanova I, Horejsi V. J Immunol. 1991 Sep 1;147(5):1587-92.
3. Monoclonal antibodies against human leucocyte antigens. IV. Antibodies against subunits of the LFA-1 (CD11a/CD18) leucocyte-adhesion glycoprotein. Bazil V, Stefanova I, Hilgert I, Kristofova H, Vanek S, Horejsi V. Folia Biol (Praha). 1990;36(1):41-50.