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Datasheet

ITGAM monoclonal antibody, clone **MEM-174 (FITC)**

Catalog Number: MAB4549

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody

raised against native ITGAM.

Clone Name: MEM-174

Immunogen: Native purified ITGAM from human

granulocytes.

Host: Mouse

Theoretical MW (kDa): 165-170

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 recognizes CD11b antigen (Mac-1 alpha), a 165-170 KDa type I transmembrane protein mainly expressed on monocytes, granulocytes and NK-cells. The CD11b mediates neutrophil and monocyte interactions with stimulated endothelium.

Form: Liquid

Conjugation: FITC

Isotype: IgG2a

Recommend Usage: Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 106 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

Avoid prolonged exposure to light.

Aliquot to avoid repeated freezing and thawing.

Entrez GenelD: 3684

Gene Symbol: ITGAM

Gene Alias: CD11B, CR3A, MAC-1, MAC1A,

MGC117044, MO1A, SLEB6

Gene Summary: This gene encodes the integrin alpha M chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as macrophage receptor 1 ('Mac-1'), or inactivated-C3b (iC3b) receptor 3 ('CR3'). The alpha M beta 2 integrin is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq1

References:

- 1. CD11b of Ovis canadensis and Ovis aries: molecular cloning and characterization. Lawrence PK, Srikumaran Immunol Immunopathol. 2007 Oct 15;119(3-4):287-98. Epub 2007 Jun 3.
- 2. Effects of beta-glucans on the immune system. Akramiene D, Kondrotas A, Didziapetriene J, Kevelaitis E. Medicina (Kaunas). 2007;43(8):597-606.
- 3. Sequential binding of CD11a/CD18 and CD11b/CD18 defines neutrophil capture and stable adhesion to intercellular adhesion molecule-1. Hentzen Neelamegham S, Kansas GS, Benanti JA, McIntire LV, Smith CW, Simon SI. Blood. 2000 Feb 1;95(3):911-20.