ITGAM monoclonal antibody, clone MEM-174 (Biotin)

Catalog # MAB4546 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native ITGAM.
Immunogen	Native purified ITGAM from human granulocytes.
Host	Mouse
Theoretical MW (kDa)	165-170
Reactivity	Human
Specificity	This antibody recognizes CD11b antigen (Mac-1 alpha), a 165-170 KDa type I transmembrane prote in mainly expressed on monocytes, granulocytes and NK-cells. The CD11b mediates neutrophil and monocyte interactions with stimulated endothelium.
Form	Liquid
Conjugation	Biotin
Isotype	IgG2a
Recommend Usage	Flow Cytometry (1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

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Gene Info — ITGAM

Entrez GeneID	3684
Gene Name	ITGAM
Gene Alias	CD11B, CR3A, MAC-1, MAC1A, MGC117044, MO1A, SLEB6
Gene Description	integrin, alpha M (complement component 3 receptor 3 subunit)
Omim ID	120980
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the integrin alpha M chain. Integrins are heterodimeric integral membrane prot eins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combi nes 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 i mportant in the adherence of neutrophils and monocytes to stimulated endothelium, and also in th e phagocytosis of complement coated particles. Multiple transcript variants encoding different isof orms have been found for this gene. [provided by RefSeq
Other Designations	antigen CD11b (p170)|complement component receptor 3, alpha|integrin alpha M|macrophage a ntigen alpha polypeptide|neutrophil adherence receptor alpha-M subunit

Publication Reference

- Effects of beta-glucans on the immune system.

  Akramiene D, Kondrotas A, Didziapetriene J, Kevelaitis E.

  Medicina (Kaunas, Lithuania) 2007 Aug; 43(8):597.

  Application: Filow Cyt, Mouse, NK cells, Phagocytic cells

- CD11b of Ovis canadensis and Ovis aries: molecular cloning and characterization.

  Lawrence PK, Srikumaran S.

  Veterinary Immunology and Immunopathology 2007 Oct; 119(3-4):287.

- Sequential binding of CD11a/CD18 and CD11b/CD18 defines neutrophil capture and stable adhesion to intercellular adhesion molecule-1.

  Hentzen ER, Neelamegham S, Kansas GS, Benanti JA, McIntire LV, Smith CW, Simon SI.

  Blood 2000 Feb; 95(3):911.

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Pathway

- Cell adhesion molecules (CAMs)
- Hematopoietic cell lineage
- Leukocyte transendothelial migration
- Regulation of actin cytoskeleton

Disease

- Autoimmune Diseases
- Cardiovascular Diseases
- Diabetes Mellitus
- Disease Susceptibility
- Edema
- Genetic Predisposition to Disease
- Helicobacter Infections
- Lupus Erythematosus
- Lupus Nephritis
- Macular Degeneration
- Nephritis
- Stomach Ulcer

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