

Datasheet

ITGA2B monoclonal antibody, clone MEM-06 (PE)

Catalog Number: MAB4431

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native ITGA2B.

Clone Name: MEM-06

Immunogen: Native purified ITGA2B from leukocytes of a patient suffering from a LGL-type leukemia.

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 reacts with CD41 (GPIIb), a transmembrane glycoprotein (integrin family) composed of two chains GPIIb alpha (heavy chain; 120 KDa) and GPIIb beta (light chain; 23 KDa). CD41 is mainly expressed on platelets and megakaryocytes.

Form: Liquid

Conjugation: PE

Isotype: IgG1

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 freeze.

Avoid prolonged exposure to light.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 3674

Gene Symbol: ITGA2B

Gene Alias: CD41, CD41B, GP2B, GPIIb, GTA, HPA3

Gene Summary: ITGA2B encodes integrin alpha chain 2b. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. Alpha chain 2b undergoes post-translational cleavage to yield disulfide-linked light and heavy chains that join with beta 3 to form a fibronectin receptor expressed in platelets that plays a crucial role in coagulation. Mutations that interfere with this role result in thrombasthenia. In addition to adhesion, integrins are known to participate in cell-surface mediated signalling. [provided by RefSeq]

References:

1. CD41-YFP mice allow in vivo labeling of megakaryocytic cells and reveal a subset of platelets hyperreactive to thrombin stimulation. Zhang J, Varas F, Stadtfeld M, Heck S, Faust N, Graf T. *Exp Hematol.* 2007 Mar;35(3):490-499.
2. CD41 expression defines the onset of primitive and definitive hematopoiesis in the murine embryo. Ferkowicz MJ, Starr M, Xie X, Li W, Johnson SA, Shelley WC, Morrison PR, Yoder MC. *Development.* 2003 Sep;130(18):4393-403.
3. Expression of CD41 on hematopoietic progenitors derived from embryonic hematopoietic cells. Mitjavila-Garcia MT, Cailleret M, Godin I, Nogueira MM, Cohen-Solal K, Schiavon V, Lecluse Y, Le Pesteur F, Lagrue AH, Vainchenker W. *Development.* 2002 Apr;129(8):2003-13.