

Datasheet

ITGB1 monoclonal antibody, clone MEM-101A (PE)

Catalog Number: MAB4553

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native ITGB1.

Clone Name: MEM-101A

Immunogen: Native purified ITGB1 from Raji Burkitt's lymphoma cell line.

Host: Mouse

Theoretical MW (kDa): 130

Reactivity: Dog, Human, Pig

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 CD29 (integrin beta1 chain), a 130 KDa single chain type I glycoprotein expressed as a heterodimer (non-covalently associated with the integrin alpha subunits 1-6).

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: 3688

Gene Symbol: ITGB1

Gene Alias: CD29, FNRR, GPIIA, MDF2, MSK12, VLA-BETA, VLAB

Gene Summary: Integrins are heterodimeric proteins made up of alpha and beta subunits. At least 18 alpha and 8 beta subunits have been described in mammals. Integrin family members are membrane receptors involved in cell adhesion and recognition in a variety of processes including embryogenesis, hemostasis, tissue repair, immune response and metastatic diffusion of tumor cells. This gene encodes a beta subunit. Multiple alternatively spliced transcript variants which encode different protein isoforms have been found for this gene. [provided by RefSeq]

References:

1. Arf and Rho GAP adapter protein ARAP1 participates in the mobilization of TRAIL-R1/DR4 to the plasma membrane. Simova S, Klima M, Cermak L, Sourkova V, Andera L. Apoptosis. 2008 Mar;13(3):423-36.
2. The role of beta1 integrin subfamily in anchorage-dependent apoptosis of breast carcinoma cells differing in multidrug resistance. Morozovich GE, Kozlova NI, Preobrazhenskaya ME, Ushakova NA, Eltsov IA, Shtil AA, Berman AE. Biochemistry (Mosc). 2006 May;71(5):489-95.
3. Integrin alpha2beta1 regulates neutrophil recruitment and inflammatory activity in experimental colitis in mice. Lundberg S, Lindholm J, Lindbom L, Hellstrom PM, Werr J. Inflamm Bowel Dis. 2006 Mar;12(3):172-7.