ITGA2B monoclonal antibody, clone MEM-06 (APC)

Catalog # MAB4428 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native ITGA2B.
Immunogen	Native purified ITGA2B from leukocytes of a patient suffering from a LGL-type leukemia.
Host	Mouse
Reactivity	Human
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	APC
Isotype	IgG1
Recommend Usage	Flow Cytometry (10 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.
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 — ITGA2B

Entrez GeneID	3674
Gene Name	ITGA2B
Gene Alias	CD41, CD41B, GP2B, GPIIb, GTA, HPA3
Gene Description	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)
Omim ID	273800 607759
Gene Ontology	Hyperlink
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 cleav age to yield disulfide-linked light and heavy chains that join with beta 3 to form a fibronectin recept or expressed in platelets that plays a crucial role in coagulation. Mutations that interfere with this r ole result in thrombasthenia. In addition to adhesion, integrins are known to participate in cell-surf ace mediated signalling. [provided by RefSeq
Other Designations	integrin alpha 2b|platelet fibrinogen receptor, alpha subunit|platelet-specific antigen BAK

Publication Reference

- 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.

  Experimental Hematology 2007 Mar; 35(3):490.

- 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.

- 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.

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Pathway

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- ECM-receptor interaction
- Focal adhesion
- Hematopoietic cell lineage
- Hypertrophic cardiomyopathy (HCM)
- Pathways in cancer
- Regulation of actin cytoskeleton
- Small cell lung cancer

Disease

- Abortion
- Acute Chest Syndrome
- Acute Disease
- Alzheimer disease
- Anemia
- Angina
- Antiphospholipid Syndrome
- Arterial Occlusive Diseases
- Arteriosclerosis
- Atherosclerosis
- Brain Ischemia
- Cardiovascular Diseases
- Carotid Stenosis
- Cerebrovascular Accident

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- Cerebrovascular Disorders
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Thrombosis
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Nephropathies
- Diabetic Retinopathy
- Edema
- Genetic Predisposition to Disease
- Graft Occlusion
- Hemorrhage
- Hypercholesterolemia
- Hypertension
- Infant
- Inflammation
- Insulin Resistance
- Intracranial Hemorrhages
- Ischemic Attack
- Kidney Failure
- Lupus Erythematosus
- Metabolic Syndrome X
- Myocardial Infarction
- Myocardial Ischemia

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- Neoplasms
- Obesity
- Osteoporosis
- Pain
- Postoperative Complications
- Pre-Eclampsia
- Prosthesis Failure
- Recurrence
- Retinal Vein Occlusion
- Stroke
- Thrombasthenia
- Thromboangiitis Obliterans
- Thrombocytopenia
- Thrombophilia
- Thrombosis
- Vascular Diseases

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