

ITGA2B monoclonal antibody, clone MEM-06 (FITC)

Catalog # MAB4430

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 (GP11b), a transmembrane glycoprotein (integrin family) composed of two chains GP11b alpha (heavy chain; 120 KDa) and GP11b beta (light chain; 23 KDa). CD41 is mainly expressed on platelets and megakaryocytes.
Form	Liquid
Conjugation	FITC
Isotype	IgG1
Recommend Usage	Flow Cytometry (20 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 should be handled by trained staff only.

Applications

- Flow Cytometry

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 cleavage to yield disulfide-linked light and heavy chains that join with beta 3 to form a fibronectin receptor or 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]

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.

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](#)

- [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](#)

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