

ITGB2 monoclonal antibody, clone MEM-48 (FITC)

Catalog # MAB4597

Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native ITGB2.
Immunogen	Native purified ITGB2 from leukocytes of patient suffering from LGL-type leukaemia.
Host	Mouse
Reactivity	Human
Specificity	This antibody MEM-48 recognizes an epitope involving residues 534-546 in cysteine-rich repeat 3 of the CD18 antigen (integrin $\beta 2$ subunit; $\beta 2$ integrin). CD18 is a 90-95 KDa type I transmembrane protein expressed on all leukocytes.
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 — ITGB2

Entrez GeneID [3689](#)

Gene Name ITGB2

Gene Alias CD18, LAD, LCAMB, LFA-1, MAC-1, MF17, MF17

Gene Description integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)

Omim ID [116920 600065](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The product of this gene belongs to the integrin beta chain family of proteins. Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. This gene encodes the integrin beta chain beta 2. A given chain may combine with multiple partners resulting in different integrins. For example, beta 2 combines with the alpha L chain to form the integrin LFA-1, and combines with the alpha M chain to form the integrin Mac-1. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling. Defects in this gene are the cause of leukocyte adhesion deficiency type I (LAD1). Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq]

Other Designations

CD18 subunit|OTTHUMP00000115278|OTTHUMP00000115279|OTTHUMP00000115281|OTTHUMP00000115282|beta 2 integrin subunit|cell surface adhesion glycoprotein LFA-1/CR3/P150, 959 beta subunit precursor)|complement receptor C3 beta-subunit|integrin beta 2|integrin bet

Publication Reference

- [Monomeric expression of bovine beta2-integrin subunits reveals their role in Mannheimia haemolytica leukotoxin-induced biological effects.](#)

Dassanayake RP, Maheswaran SK, Srikumaran S.

Infection and Immunity 2007 Aug; 75(10):5004.

- [Association of the CD59 and CD55 cell surface glycoproteins with other membrane molecules.](#)

Stefanová I, Horejsí V.

Journal of immunology 1991 Sep; 147(5):1587.

- [Monoclonal antibodies against human leucocyte antigens. IV. Antibodies against subunits of the LFA-1 \(CD11a/CD18\) leucocyte-adhesion glycoprotein.](#)

Bazil V, Stefanová I, Hilgert I, Kristofová H, Vaněk S, Horejsí V.

Folia Biol (Praha) 1990 Jan; 36(1):41.

Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [Leukocyte transendothelial migration](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Asthma](#)
- [Atherosclerosis](#)
- [Birth Weight](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Cardiovascular Diseases](#)
- [Cerebral Infarction](#)
- [Cerebrovascular Accident](#)
- [Constriction](#)
- [Coronary Disease](#)
- [Coronary Restenosis](#)
- [Diabetes Mellitus](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Edema](#)
- [Enterocolitis](#)

- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Glomerulonephritis](#)
- [Hirschsprung Disease](#)
- [Hypercholesterolemia](#)
- [Infant](#)
- [Inflammation](#)
- [Intracranial Thrombosis](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lymphoma](#)
- [Macular Degeneration](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Metabolic Syndrome X](#)
- [Narcolepsy](#)
- [Obesity](#)
- [Parkinson disease](#)
- [Recurrence](#)
- [Renal Insufficiency](#)
- [Respiratory Syncytial Virus Infections](#)
- [Stroke](#)
- [Thyroid Neoplasms](#)
- [Werner syndrome](#)