

ITGB1 monoclonal antibody, clone DF7

Catalog # MAB5274

Size 100 ug

Specification

Product Description Mouse monoclonal antibody raised against native ITGB1.

Immunogen Native purified human ITGB1.

Host Mouse

Reactivity Human

Specificity This antibody reacts with the b1 subunit of the integrin protein family. The monoclonal antibody reacts with an extracellular epitope of the b1 integrin molecule. b1 -Integrins mediate cell-extracellular matrix interactions and share a common b-subunit. Monoclonal antibodies against this b1 -Integrin subunit are applicable in paraffin-embedded and frozen sections, immunoblotting and immunoprecipitation. Numerous studies have shown that b1 -Integrins have a distinct and wide cellular distribution and that there are alterations in malignant cells in their b1-integrin expression. Monoclonal antibody to b1 integrin is derived from the hybridoma produced by fusion between myeloma cells and Balb/c spleen cells.

Form Liquid

Isotype IgG1

Recommend Usage Western Blot (1:1000)
The optimal working dilution should be determined by the end user.

Storage Buffer In PBS (1% BSA, 0.09% sodium azide)

Storage Instruction Store at 4°C.

Note This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Enzyme-linked Immunoabsorbent Assay

Gene Info — ITGB1

Entrez GeneID	3688
Gene Name	ITGB1
Gene Alias	CD29, FNRB, GPIIA, MDF2, MSK12, VLA-BETA, VLAB
Gene Description	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)
Omim ID	135630
Gene Ontology	Hyperlink
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]
Other Designations	OTTHUMP00000019420 OTTHUMP00000046253 OTTHUMP00000063731 OTTHUMP00000063732 OTTHUMP00000063733 fibronectin receptor beta subunit integrin VLA-4 beta subunit integrin beta 1

Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Axon guidance](#)
- [Cell adhesion molecules \(CAMs\)](#)
- [ECM-receptor interaction](#)
- [Focal adhesion](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Leukocyte transendothelial migration](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)

- [Small cell lung cancer](#)

Disease

- [Alzheimer Disease](#)
- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
- [Chylothorax](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Inflammation](#)
- [Myocardial Infarction](#)
- [Ovarian Neoplasms](#)
- [Prostatic Neoplasms](#)
- [Recurrence](#)
- [Stroke](#)