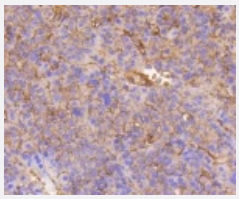
RecomAb™ Sm Size

ITGB1 recombinant monoclonal antibody

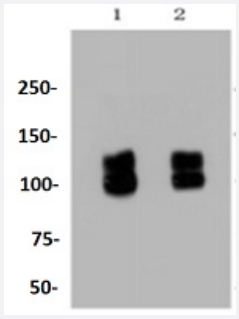
Catalog # RAB09331 Size 50 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human liver cancer tissue usingITGB1 recombinant monoclonal antibody (Cat # RAB09331). Counter stained with hematoxylin.



Western Blot (Cell lysate)

Western blot analysis of Lane1:Hela whole cell lysate Lane2:NIH/3T3 whole cell lysate with ITGB1 recombinant monoclonal antibody (Cat # RAB09331) at 1:1000 dilution.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against ITGB1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant ITGB1.
Theoretical MW (kDa)	135
Reactivity	Human, Mouse, Rat, Zebra fish
Specificity	This antibody detects endogenous levels of Integrin beta1 and does not cross-react with related prot eins.

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Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:200) Western Blot (1:1000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS , pH7.2 (0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Western Blot (Cell lysate)

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Gene Info — ITGB1

Entrez GeneID	3688
Protein Accession#	P05556
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

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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 receptor s involved in cell adhesion and recognition in a variety of processes including embryogenesis, he mostasis, tissue repair, immune response and metastatic diffusion of tumor cells. This gene enco des 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|OTTHUMP000000 63732|OTTHUMP00000063733|fibronectin receptor beta subunit|integrin VLA-4 beta subunit|inte grin 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

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- Coronary Artery Disease
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Inflammation
- Myocardial Infarction
- Ovarian Neoplasms
- Prostatic Neoplasms
- Recurrence
- Stroke

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