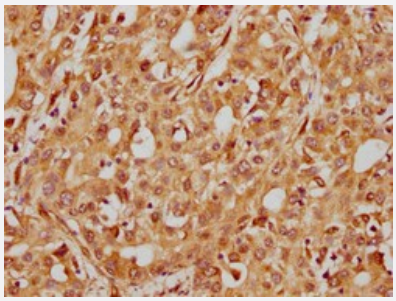
RecomAb™ Sm Size

ITGB1 recombinant monoclonal antibody, clone 32A10

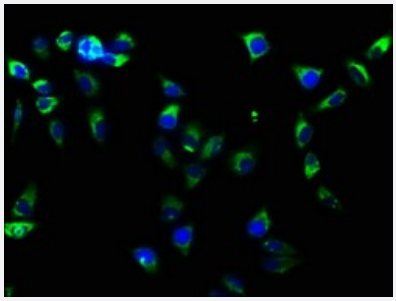
Catalog # RAB08223 Size 50 uL

Applications



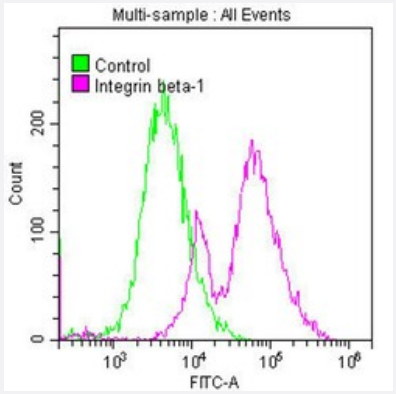
Immunohistochemistry

Immunohistochemical staining of human liver cancer with ITGB1 recombinant monoclonal antibody (diluated at 1:185).



Immunofluorescence

Immunofluorescent staining of Hela cells with ITGB1 recombinant monoclonal antibody (diluated at 1:61). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).



Flow Cytometry

Flow cytometric analysis of MCF-7 cells with ITGB1 recombinant monoclonal antibody (diluated at 1:50; purple line) and negative control (green line).

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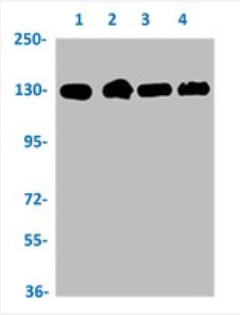

Western Blot

Western blot analysis of
Lane 1: Hela whole cell lysate,
Lane 2: MCF-7 whole cell lysate,
Lane 3: SH-SY5Y whole cell lysate and
Lane 4: U251 whole cell lysate with ITGB1 recombinant monoclonal antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ITGB1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human ITGB1.
Theoretical MW (kDa)	Calculated MW: 89, 8
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry Immunofluorescence (1:20-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. 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.

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Applications

- Immunohistochemistry

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- Flow Cytometry

  Flow cytometric analysis of MCF-7 cells with ITGB1 recombinant monoclonal antibody (diluated at 1:50; purple line) and negative control (green line).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western blot analysis of
  Lane 1: Hela whole cell lysate,
  Lane 2: MCF-7 whole cell lysate,
  Lane 3: SH-SY5Y whole cell lysate and
  Lane 4: U251 whole cell lysate with ITGB1 recombinant monoclonal antibody.

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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