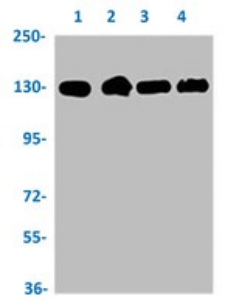
RecomAb™

ITGB1 recombinant monoclonal antibody, clone 32A10

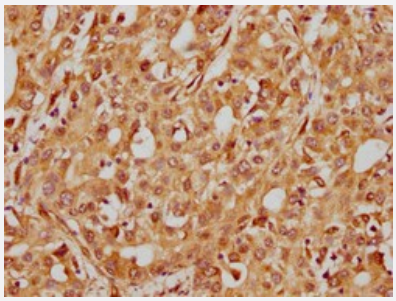
Catalog # RAB04368 Size 100 uL

Applications



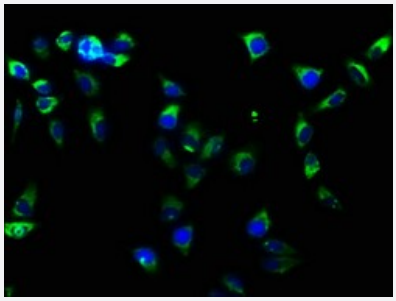
Western Blot

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, clone 32A10 (Cat # RAB04368).



Immunohistochemistry

Immunohistochemical staining of human liver cancer with ITGB1 recombinant monoclonal antibody, clone 32A10 (Cat # RAB04368) (diluated at 1:185).



Immunofluorescence

Immunofluorescent staining of Hela cells with ITGB1 recombinant monoclonal antibody, clone 32A10 (Cat # RAB04368) (diluated at 1:61). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

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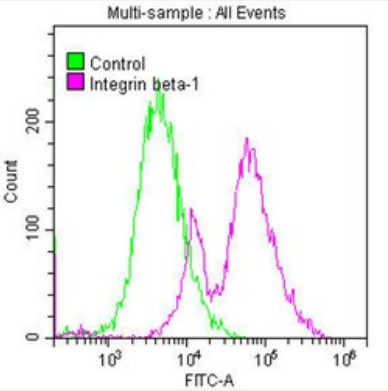

Flow Cytometry

Flow cytometric analysis of MCF-7 cells with ITGB1 recombinant monoclonal antibody, clone 32A10 (Cat # RAB04368) (diluated at 1:50; purple line) and negative control (green line).

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
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

- 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, clone 32A10 (Cat # RAB04368).

- Immunohistochemistry

  Immunohistochemical staining of human liver cancer with ITGB1 recombinant monoclonal antibody, clone 32A10 (Cat # RAB04368) (diluated at 1:185).

- Immunofluorescence

  Immunofluorescent staining of Hela cells with ITGB1 recombinant monoclonal antibody, clone 32A10 (Cat # RAB04368) (diluated at 1:61). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

  Flow cytometric analysis of MCF-7 cells with ITGB1 recombinant monoclonal antibody, clone 32A10 (Cat # RAB04368) (diluated at 1:50; purple line) and negative control (green line).

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
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

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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

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- Genetic Predisposition to Disease
- Inflammation
- Myocardial Infarction
- Ovarian Neoplasms
- Prostatic Neoplasms
- Recurrence
- Stroke

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