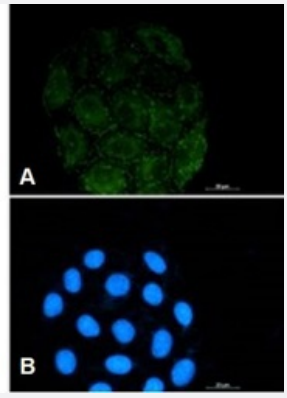
RecomAb™

ITGAV recombinant monoclonal antibody, clone R02-6G3

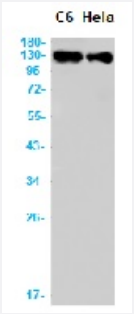
Catalog # RAB01726 Size 100 uL

Applications



Immunocytochemistry

Immunocytochemical staining of A549 with Integrin alpha V recombinant monoclonal antibody, clone R02-6G3 (Cat # RAB01726). (A) Integrin alpha V (green) and (B) DAPI (blue).



Western Blot

Western blot analysis of Integrin alphaV in C6, Hela lysates using human Integrin alpha V recombinant monoclonal antibody, clone R02-6G3 (Cat # RAB01726).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human Integrin alpha V.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human Integrin alpha V
Theoretical MW (kDa)	Calculated MW: 116 k
Reactivity	Human

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Form	Liquid
Preparation Method	Mammalian cell (CHO) expression system
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1:50-1:200) Immunoprecipitation (1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA).
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°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.

Applications

- Immunocytochemistry

  Immunocytochemical staining of A549 with Integrin alpha V recombinant monoclonal antibody, clone R02-6G3 (Cat # RAB01726). (A) Integrin alpha V (green) and (B) DAPI (blue).

- Immunoprecipitation

- Western Blot

  Western blot analysis of Integrin alphaV in C6, Hela lysates using human Integrin alpha V recombinant monoclonal antibody, clone R02-6G3 (Cat # RAB01726).

Gene Info — ITGAV

Entrez GeneID	3685
Protein Accession#	P06756
Gene Name	ITGAV
Gene Alias	CD51, DKFZp686A08142, MSK8, VNRA
Gene Description	integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)

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Omim ID	193210
Gene Ontology	Hyperlink
Gene Summary	ITAGV encodes integrin alpha chain V. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. The I-domain containing integrin alpha V undergoes post-translational cleavage to yield disulfide-linked heavy and light chains, that combine with multiple integrin beta chains to form different integrins. Among the known associating beta chains (beta chains 1,3,5,6, and 8; 'ITGB1', 'ITGB3', 'ITGB5', 'ITGB6', and 'ITGB8'), each can interact with extracellular matrix ligands; the alpha V beta 3 integrin, perhaps the most studied of these, is referred to as the Vitronectin receptor (VNR). In addition to adhesion, many integrins are known to facilitate signal transduction. Alternative splicing results in multiple transcript variants. [provided by RefSeq
Other Designations	Integrin, alpha-V (vitronectin receptor, alpha polypeptide)|antigen identified by monoclonal antibody L230|integrin alpha-V

Pathway

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Cell adhesion molecules (CAMs)
- ECM-receptor interaction
- Focal adhesion
- Hypertrophic cardiomyopathy (HCM)
- Pathways in cancer
- Regulation of actin cytoskeleton
- Small cell lung cancer

Disease

- Anemia
- Arthritis
- Breast cancer
- Breast Neoplasms
- Carcinoma

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- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hepatitis B
- Ovarian Neoplasms
- Priapism
- Thalassemia
- Tobacco Use Disorder

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