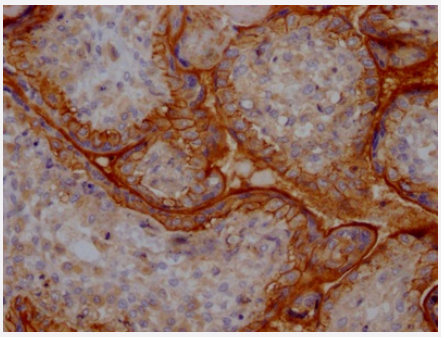
RecomAb™

ITGAV recombinant monoclonal antibody, clone 5G3

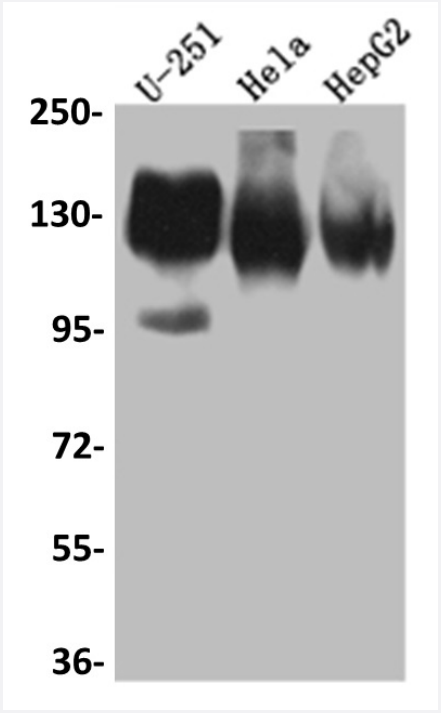
Catalog # RAB07452 Size

Applications



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

Immunohistochemical analysis of paraffin-embedded human placenta tissue using ITGAV recombinant monoclonal antibody, clone 5G3 (Cat # RAB07452) on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Western Blot (Cell lysate)

Western blot analysis of U-251 whole cell lysate, Hela whole cell lysate, HepG2 whole cell lysate with ITGAV recombinant monoclonal antibody, clone 5G3 (Cat # RAB07452).

Specification

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Product Description	Rabbit recombinant monoclonal antibody raised against human ITGAV.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human ITGAV.
Theoretical MW (kDa)	Calculated MW: 117,
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA 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 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
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.

Applications

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

  Immunohistochemical analysis of paraffin-embedded human placenta tissue using ITGAV recombinant monoclonal antibody, clone 5G3 (Cat # RAB07452) on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western blot analysis of U-251 whole cell lysate, Hela whole cell lysate, HepG2 whole cell lysate with ITGAV recombinant monoclonal antibody, clone 5G3 (Cat # RAB07452).

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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)
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

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Disease

- Anemia
- Arthritis
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hepatitis B
- Ovarian Neoplasms
- Priapism
- Thalassemia
- Tobacco Use Disorder

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