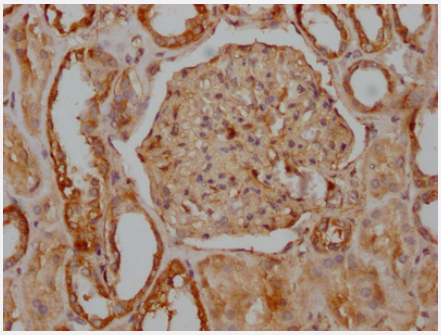
RecomAb™

# ITGAV recombinant monoclonal antibody, clone 4G7

Catalog # RAB03985 Size 100 uL

## Applications



### Immunohistochemistry

Immunohistochemistry image of ITGAV recombinant monoclonal antibody, clone 4G7 diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human ITGAV. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant protein corresponding to full length human ITGAV. |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Affinity-chromatography |
| **Isotype** | IgG |
| **Recommend Usage** | ELISA<br>Immunohistochemistry (1:50-1:200)<br>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) |

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| | |
|---|---|
| **Storage Instruction** | store at -20 °C or -80 °C.<br>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

  Immunohistochemistry image of ITGAV recombinant monoclonal antibody, clone 4G7 diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system.

- Enzyme-linked Immunoabsorbent Assay

## 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 c omposed 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 multi ple integrin beta chains to form different integrins. Among the known associating beta chains (bet a chains 1,3,5,6, and 8; 'ITGB1', 'ITGB3', 'ITGB5', 'ITGB6', and 'ITGB8'), each can interact with extr acellular 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 facilitat e signal transduction. Alternative splicing results in multiple transcript variants. [provided by RefSe q |
| **Other Designations** | Integrin, alpha-V (vitronectin receptor, alpha polypeptide)\|antigen identified by monoclonal antibod y L230\|integrin alpha-V |

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

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- Tobacco Use Disorder

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