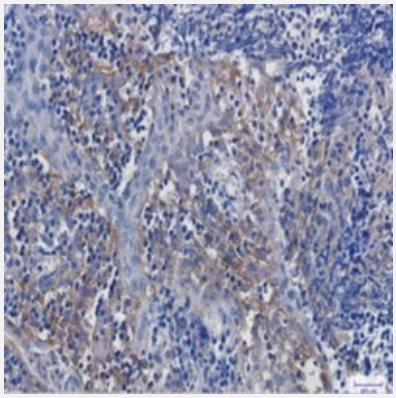
RecomAb™

# ITGAV recombinant monoclonal antibody, clone R03-6E3

Catalog # RAB01724 Size 100 uL

## Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with Integrin alpha V recombinant monoclonal antibody, clone R03-6E3 (Cat # RAB01724). High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.




### Western Blot

Western blot analysis of Integrin alpha V in C6, 3T3, Hela lysates using human Integrin alpha V recombinant monoclonal antibody, clone R03-6E3 (Cat # RAB01724).

## Specification

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| **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** | Immunohistochemistry (1:50-1:100)<br>Western Blot (1:500-1:1,000)<br>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.<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 (Formalin/PFA-fixed paraffin-embedded sections)

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- Western Blot

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## Gene Info — ITGAV

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|---|---|
| **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 |

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|---|---|
| **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
- Cardiovascular Diseases
- Diabetes Mellitus

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- Edema
- Genetic Predisposition to Disease
- Hepatitis B
- Ovarian Neoplasms
- Priapism
- Thalassemia
- Tobacco Use Disorder

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