

# Integrin alpha V Antibody

Rabbit mAb

Catalog # AP90357

## Product Information

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|--------------------------|---|
| <b>Application</b>       | WB, FC  |
| <b>Primary Accession</b> | <a href="#">P06756</a>  |
| <b>Reactivity</b>        | Rat, Human, Mouse   |
| <b>Clonality</b>         | Monoclonal  |
| <b>Other Names</b>       | CD51; Integrin alpha five; integrin alpha V beta 3; Integrin alpha-V light chain; ITGAV; Msk8;Vitronectin receptor subunit alpha; VNRA; VTNR; |
| <b>Isotype</b>           | Rabbit IgG  |
| <b>Host</b>              | Rabbit  |
| <b>Calculated MW</b>     | 116038  |

## Additional Information

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|-------------------------------------|--|
| <b>Dilution</b>                     | WB 1:1000~1:2000 FC 1:20   |
| <b>Purification</b>                 | Affinity-chromatography  |
| <b>Immunogen</b>                    | A synthesized peptide derived from human Integrin alpha V  |
| <b>Description</b>                  | The alpha-V (ITGAV) integrins are receptors for vitronectin, cytотactин, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions. |
| <b>Storage Condition and Buffer</b> | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.  |

## Protein Information

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|-----------------|---|
| <b>Name</b>     | ITGAV ( <a href="#">HGNC:6150</a> )   |
| <b>Function</b> | The alpha-V (ITGAV) integrins are receptors for vitronectin, cytотактин, fibronectin, fibrinogen, laminin, matrix metalloproteinase- 2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. They recognize the sequence R-G-D in a wide array of ligands. ITGAV:ITGB3 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1- dependent fractalkine signaling (PubMed: <a href="#">23125415</a> ). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed: <a href="#">20682778</a> ). ITGAV:ITGB3 binds to FGF1 and this binding is essential for FGF1 signaling (PubMed: <a href="#">18441324</a> ). ITGAV:ITGB3 binds to FGF2 and this binding is essential for FGF2 signaling (PubMed: <a href="#">28302677</a> ). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed: <a href="#">19578119</a> ). ITGAV:ITGB3 binds to IGF2 and this binding is essential for IGF2 signaling (PubMed: <a href="#">28873464</a> ). |

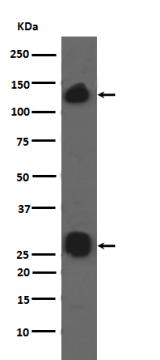
ITGAV:ITGB3 binds to IL1B and this binding is essential for IL1B signaling (PubMed:[29030430](#)). ITGAV:ITGB3 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed:[18635536](#), PubMed:[25398877](#)). ITGAV:ITGB3 and ITGAV:ITGB6 act as receptors for fibrillin-1 (FBN1) and mediate R-G-D-dependent cell adhesion to FBN1 (PubMed:[12807887](#), PubMed:[17158881](#)). Integrin alpha-V/beta-6 or alpha- V/beta-8 (ITGAV:ITGB6 or ITGAV:ITGB8) mediates R-G-D-dependent release of transforming growth factor beta-1 (TGF-beta-1) from regulatory Latency-associated peptide (LAP), thereby playing a key role in TGF- beta-1 activation (PubMed:[15184403](#), PubMed:[22278742](#), PubMed:[28117447](#)). ITGAV:ITGB3 acts as a receptor for CD40LG (PubMed:[31331973](#)). ITGAV:ITGB3 acts as a receptor for IBSP and promotes cell adhesion and migration to IBSP (PubMed:[10640428](#)).

#### Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell junction, focal adhesion

#### Images

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Western blot analysis of integrin alpha V expression in A549 cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.