

# KD-Validated Anti-Integrin alpha V Rabbit Monoclonal Antibody

Rabbit monoclonal antibody  
Catalog # AGI1820

## Product Information

|                   |                                                                                                                                                                                                                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB, FC                                                                                                                                                                                                                                                                                                                |
| Primary Accession | <a href="#">P06756</a>                                                                                                                                                                                                                                                                                                |
| Reactivity        | Rat, Human, Mouse                                                                                                                                                                                                                                                                                                     |
| Clonality         | Monoclonal                                                                                                                                                                                                                                                                                                            |
| Isotype           | Rabbit IgG                                                                                                                                                                                                                                                                                                            |
| Clone Names       | 24GB4435                                                                                                                                                                                                                                                                                                              |
| Calculated MW     | 116038                                                                                                                                                                                                                                                                                                                |
| Gene Name         | ITGAV                                                                                                                                                                                                                                                                                                                 |
| Aliases           | ITGAV; Integrin Subunit Alpha V; CD51; MSK8; VNRA; VTNR; Integrin, Alpha V (Vitronectin Receptor, Alpha Polypeptide, Antigen CD51); Antigen Identified By Monoclonal Antibody L230; Vitronectin Receptor Subunit Alpha; Vitronectin Receptor; Integrin Alpha-V; Integrin AlphaVbeta3; Integrin, Alpha V; CD51 Antigen |
| Immunogen         | Recombinant protein of human Integrin alpha V                                                                                                                                                                                                                                                                         |

## Additional Information

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|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID     | 3685                                                                                                                                                                                                           |
| Other Names | Integrin alpha-V, Vitronectin receptor {ECO:0000312 HGNC:HGNC:6150}, Vitronectin receptor subunit alpha, CD51, Integrin alpha-V heavy chain, Integrin alpha-V light chain, ITGAV ( <a href="#">HGNC:6150</a> ) |

## Protein Information

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| Name     | ITGAV ( <a href="#">HGNC:6150</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Function | The alpha-V (ITGAV) integrins are receptors for vitronectin, cytotactin, 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

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