

# Anti-CD51 Antibody

Rabbit polyclonal antibody to CD51

Catalog # AP59594

## Product Information

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|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P06756</a> |
| Reactivity        | Human, Pig             |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 116038                 |

## Additional Information

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| Gene ID            | 3685                                                                                                                                |
| Other Names        | MSK8; VNRA; Integrin alpha-V; Vitronectin receptor subunit alpha; CD51                                                              |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD51. The exact sequence is proprietary. |
| Dilution           | WB~~WB (1/500 - 1/1000)                                                                                                             |
| Format             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.                     |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                           |

## Protein Information

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| Name     | ITGAV ( <a href="#">HGNC:6150</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Function | <p>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:<a href="#">29030430</a>). 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</p> |

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

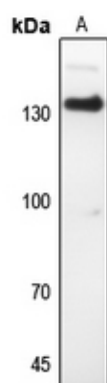
## Background

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KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD51. The exact sequence is proprietary.

## Images

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Western blot analysis of CD51 expression in HGC27 (A) whole cell lysates.

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