

ITGAV (heavy chain, Cleaved-Lys889) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50036**Specification****ITGAV (heavy chain, Cleaved-Lys889) Antibody - Product Information**

Application	WB
Primary Accession	P06756
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	116112111 Da
Antigen Region	865-892

ITGAV (heavy chain, Cleaved-Lys889) Antibody - Additional Information**Gene ID** 3685**Other Names**

Integrin alpha-V, Vitronectin receptor subunit alpha, CD51, Integrin alpha-V heavy chain, Integrin alpha-V light chain, ITGAV, MSK8, VNRA

Dilution

WB~~ 1:1000

Format

Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions

-20°C

ITGAV (heavy chain, Cleaved-Lys889) Antibody - Protein Information**Name** ITGAV ([HGNC:6150](#))**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:23125415). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling (PubMed:20682778). ITGAV:ITGB3 binds to FGF1 and this binding is essential for FGF1 signaling (PubMed:18441324). ITGAV:ITGB3 binds to FGF2 and this binding is essential for FGF2 signaling (PubMed:28302677).

target="_blank">28302677). ITGAV:ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling (PubMed:19578119). ITGAV:ITGB3 binds to IGF2 and this binding is essential for IGF2 signaling (PubMed:28873464). 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

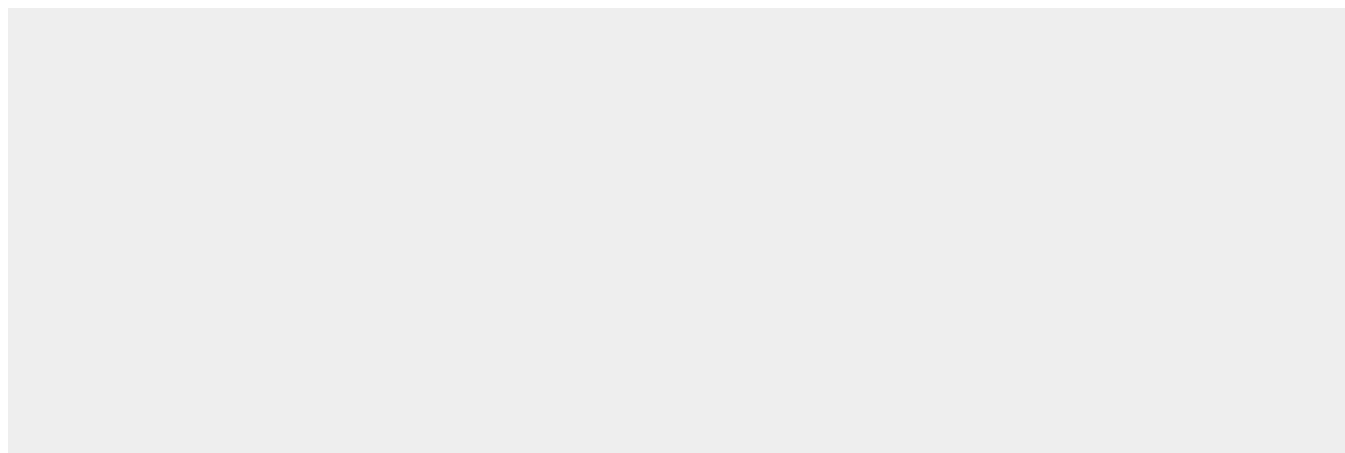
Cell membrane; Single-pass type I membrane protein. Cell junction, focal adhesion

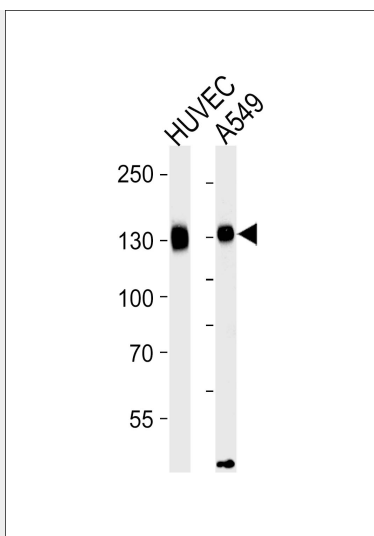
ITGAV (heavy chain, Cleaved-Lys889) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ITGAV (heavy chain, Cleaved-Lys889) Antibody - Images





Western blot analysis of lysates from HUVEC, A549 cell line (from left to right), using ITGAV (heavy chain, Cleaved-Lys889) Antibody (L0297). L0297 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.

ITGAV (heavy chain, Cleaved-Lys889) Antibody - Background

The alpha-V 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. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

ITGAV (heavy chain, Cleaved-Lys889) Antibody - References

Suzuki S., et al. J. Biol. Chem. 262:14080-14085 (1987).
Sims M.A., et al. Cytogenet. Cell Genet. 89:268-271 (2000).
Ota T., et al. Nat. Genet. 36:40-45 (2004).
Totoki Y., et al. Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.
Hillier L.W., et al. Nature 434:724-731 (2005).