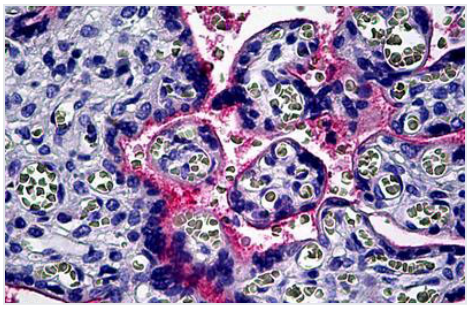
ITGAV Antibody – Rabbit Polyclonal

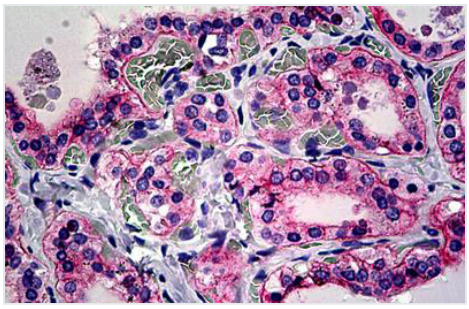
PRODUCT OVERVIEW

Product Name	ITGAV/Integrin Alpha V/CD51, Polyclonal Antibody
Full Product Name	Rabbit Polyclonal (IgG) to Human ITGAV/Integrin Alpha V/CD51
Product Gene Name	anti-ITGAV antibody
Product Synonym Names	Anti-ITGAV/Integrin Alpha V/CD51 Antibody (aa840-889) IHC-plus; ITGAV; CD51; CD51 antigen; Integrin; alpha V; MSK8; Integrin Alpha V; Integrin alpha-V; VNRA; Vitronectin receptor; Integrin alphaVbeta3; VTNR; Human ITGAV/Integrin Alpha V/CD51
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS (without Mg2+, Ca2+), pH 7.4, 150 mM sodium chloride, 0.02% sodium azide, 50% glycerol
Purity/Purification	Immunoaffinity Purified
Concentration	1 mg/ml (lot specific)
Specificity	ITGAV (heavy chain,Cleaved-Lys889) Antibody detects endogenous levels of fragment of activated ITGAV resulting from cleavage adjacent to Lys889.
Preparation and Storage	Store at -20 degree C for up to one year.
Molecular Weight	111,132 Da
OMIM	193210
3D Structure	ModBase 3D Structure for P06756
Target Species	Human
Immunogen Description	Synthetic peptide from human ITGAV (aa840-889).
Immunogen	ITGAV/Integrin Alpha V/CD51 antibody was raised against synthetic peptide from human ITGAV (aa840-889).
Antigen Modification	aa840-889
Product Categories/Family for anti-ITGAV antibody	Family: Integrin
Applications Tested/Suitable for anti-ITGAV antibody	Immunohistochemistry (IHC - Paraffin), Western Blot (WB), ELISA (EIA)
Application Notes for anti-ITGAV antibody	ELISA (1:10000), IHC-P (5 ug/ml), WB (1:500 - 1:1000)
Related Product Information for anti-ITGAV antibody	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.
Other Notes	Small volumes of anti-ITGAV antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

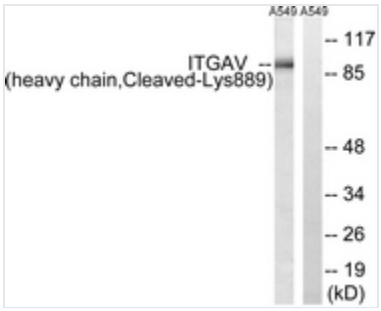
Searchable Terms for ITGAV purchase	MBS244840 is an antibody targeting ITGAV. Also known as Rabbit Polyclonal (IgG) to Human ITGAV/Integrin Alpha V/CD51. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-ITGAV antibody
Anti-CD51 antibody IHC of human placenta. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.



Immunohistochemistry (IHC) of anti-ITGAV antibody
Anti-CD51 antibody IHC of human thyroid. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.



Western Blot (WB) of anti-ITGAV antibody
Western blot of extracts from A549 cells, treated with etoposide 25 uM 1h, using ITGAV (heavy chain, Cleaved-Lys889) Antibody. The lane on the right is treated with the synthesized peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ITGAV. It may not necessarily be applicable to this product.

NCBI GI #	4504763
NCBI GeneID	3685
NCBI Accession #	NP_002201.1
UniProt Primary Accession #	P06756
UniProt Secondary Accession #	Q53SK4; Q59EB7; Q6LD15; A0AV67; B0LPF4; B7Z883; B7ZLX0; D3DPG8; E7EWZ6
UniProt Related Accession #	P06756
GenBank Nucleotide #	NM_002210.4
NCBI Official Full Name	integrin alpha-V isoform 1
NCBI Official Synonym Full Names	integrin, alpha V
NCBI Official Symbol	ITGAV
NCBI Official Synonym Symbols	CD51; MSK8; VNRA; VTNR
UniProt Protein Name	Integrin alpha-V
UniProt Synonym Protein Names	Vitronectin receptor subunit alpha; CD_antigen: CD51Cleaved into the following 2 chains:Integrin alpha-V heavy chain; Integrin alpha-V light chain
Protein Family	Integrin
UniProt Gene Name	ITGAV

UniProt Synonym Gene Names	MSK8; VNRA
UniProt Entry Name	ITAV_HUMAN
NCBI Protein Information	integrin alpha-V; integrin alphaVbeta3; vitronectin receptor subunit alpha; antigen identified by monoclonal antibody L230; integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)
NCBI Summary for ITGAV	This gene encodes a protein that is a member of the integrin superfamily. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This protein undergoes post-translational cleavage to yield disulfide-linked heavy and light chains that combine with multiple integrin beta chains to form different integrins. This protein has been shown to heterodimerize with beta 1, beta 3, beta 5, beta 6, and beta 8; the heterodimer of alpha v and beta 3 is the Vitronectin receptor. This protein interacts with several extracellular matrix proteins to mediate cell adhesion and may play a role in cell migration. It is proposed that this protein may regulate angiogenesis and cancer progression. Alternative splicing results in multiple transcript variants that encode different protein isoforms. Note that the integrin alpha 5 and integrin alpha V chains are produced by distinct genes. [provided by RefSeq, Jan 2015]
UniProt Comments for ITGAV	ITGAV: 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. Belongs to the integrin alpha chain family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Cell adhesion; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 2q31-q32 Cellular Component: filopodium membrane; focal adhesion; cell surface; membrane; integral to plasma membrane; microvillus membrane; plasma membrane; phagocytic vesicle; integrin complex; external side of plasma membrane Molecular Function: viral receptor activity; voltage-gated calcium channel activity; protein binding; opsonin binding; insulin-like growth factor I binding; protease binding; protein kinase C binding; extracellular matrix binding; transforming growth factor beta binding; metal ion binding; fibronectin binding Biological Process: negative regulation of lipid transport; axon guidance; extracellular matrix organization and biogenesis; entry of virus into host cell; positive regulation of cell adhesion; cell-matrix adhesion; negative chemotaxis; entry of symbiont into host cell by promotion of host phagocytosis; regulation of phagocytosis; antigen processing and presentation of peptide antigen via MHC class I; positive regulation of cell proliferation; antigen processing and presentation of exogenous peptide antigen via MHC class I; angiogenesis; cell growth; cell adhesion; integrin-mediated signaling pathway; cell migration; negative regulation of lipoprotein metabolic process; antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent; cell-substrate adhesion; heterotypic cell-cell adhesion; negative regulation of low-density lipoprotein receptor biosynthetic process; positive regulation of osteoblast proliferation; blood coagulation; vascular endothelial growth factor receptor signaling pathway; leukocyte migration; apoptotic cell clearance; positive regulation of cell migration
Research Articles on ITGAV	**1.** Results suggest that the ITGAV gene may be a candidate gene for the etiopathogenesis of rheumatoid arthritis.
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