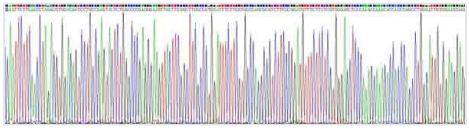
Integrin Alpha V (ITGaV) Recombinant Protein

PRODUCT OVERVIEW

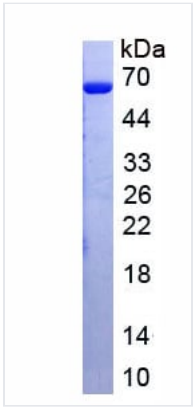
Product Name	Integrin Alpha V (ITGaV), Recombinant Protein
Full Product Name	Recombinant Integrin Alpha V (ITGaV)
Product Gene Name	ITGaV recombinant protein
Product Synonym Names	ITGaV/Integrin Alpha V; CD51; ITG-AV; MSK8; VNRA; Vitronectin Receptor,Alpha Polypeptide
Sequence	Phe31~Gly5 60
Host	E Coli
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Purity/Purification	Greater than 90% by SDS-PAGE
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months Stable for 12 months if correctly stored. The thermal stability is described by the loss rate. The loss rate was determinedby accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and noobvious degradation and precipitation were observed. The loss rate is less than 5% within theexpiration date under appropriate storage condition.
Matching Pairs	Antibody: ITGaV Clone #C4 (MBS2126645) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C1 (MBS2140960) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C8 (MBS2140961) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C2 (MBS2141537) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C9 (MBS2141539) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C1 (MBS2142541) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C8 (MBS2142542) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C2 (MBS2143118) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C9 (MBS2143120) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C1 (MBS2144120) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C8 (MBS2144121) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C2 (MBS2144697) Immunogen: ITGaV (MBS2125478)

Matching Pairs	Antibody: ITGaV Clone #C9 (MBS2144699) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C1 (MBS2145700) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C8 (MBS2145701) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C2 (MBS2146277) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C9 (MBS2146279) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C1 (MBS2147281) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C8 (MBS2147282) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C2 (MBS2147858) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C9 (MBS2147860) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C1 (MBS2148862) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C8 (MBS2148863) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C2 (MBS2149439) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C9 (MBS2149441) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C1 (MBS2150442) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C8 (MBS2150443) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C2 (MBS2151019) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C9 (MBS2151021) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C1 (MBS2152016) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C8 (MBS2152017) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C2 (MBS2152594) Immunogen: ITGaV (MBS2125478)
Matching Pairs	Antibody: ITGaV Clone #C9 (MBS2152596) Immunogen: ITGaV (MBS2125478)
Molecular Weight	116,038 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (187454790..187545628). Location: 2q31-q32
OMIM	193210
3D Structure	ModBase 3D Structure for P06756

Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Tag	N-terminal His Tag
Expression System	Prokaryotic expression
Organism Species	Human
Isoelectric Point	5.0
Subcellular Location	Membrane
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.
Product Categories/Family for ITGaV recombinant protein	CD & Adhesion molecule; Prokaryotic recombinant
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for ITGaV recombinant protein	Positive Control, Immunogen, SDS-PAGE, Western Blot (WB)
Related Product Information for ITGaV recombinant protein	MBS2125478 is a recombinant protein targeting ITGaV. Also known as Recombinant Integrin Alpha V (ITGaV). Host: E Coli.
Other Notes	Small volumes of ITGaV recombinant protein 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.



Gene Sequencing of ITGaV recombinant protein
Gene Sequencing (extract)



SDS-Page of ITGaV recombinant protein
SDS-PAGE

ADDITIONAL DETAILS

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

NCBI GI #	223468595
NCBI GeneID	3685
NCBI Accession #	NP_001138471.1
UniProt Primary Accession #	P06756
UniProt Secondary Accession #	Q53SK4; Q59EB7; Q6LD15; A0AV67; B0LPF4; B7Z883; D3DPG8; E7EWZ6
UniProt Related Accession #	P06756
GenBank Nucleotide #	NM_001144999.2
NCBI Official Full Name	integrin alpha-V isoform 2

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
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. [provided by RefSeq, May 2013]
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: Cell adhesion; Membrane protein, integral; 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: voltage-gated calcium channel activity; viral receptor activity; protein binding; opsonin binding; insulin-like growth factor I binding; protein kinase C binding; protease binding; extracellular matrix binding; transforming growth factor beta binding; metal ion binding; fibronectin binding Biological Process: negative regulation of lipid transport; axon guidance; entry of virus into host cell; extracellular matrix organization and biogenesis; 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 adhesion; cell growth; 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; vascular endothelial growth factor receptor signaling pathway; blood coagulation; leukocyte migration; apoptotic cell clearance; positive regulation of cell migration
Research Articles on ITGaV	**1.** The results demonstrate a non-redundant role for alpha(v)beta(3) in gremlin-induced angiogenesis.
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