

Recombinant Human ITGAV protein

Cat. No. ITGAV-26862TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGAV was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
Description	The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha subunit and a beta subunit that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha V subunit. This subunit associates with beta 1, beta 3, beta 5, beta 6 and beta 8 subunits. The heterodimer consisting of alpha V and beta 3 subunits is also known as the vitronectin receptor. This integrin may regulate angiogenesis and cancer progression. Alternative splicing results in multiple transcript variants. Note that the integrin alpha 5 and integrin alpha V subunits are encoded by distinct genes.
Form	25 mM Tris-HCl of pH8.0 containing 2% glycerol.
Molecular Mass	116 kDa
AA Sequence	MAFPFRRRLRLGPRGLPLLLSGLLLPLCRAFNLVDSPA EYSGPEGSYFGFAVDFFV PSASSQMFLLVGAPKANT TQPGIVEGGQVLKCDWSSTRRCQPIEFDATGNRDYAK DDPLEFKSHQWFGASVRSKQDKILACAPLYHWRTEMKQ EREPVGTCFLQDGTKTV EYAPCRSQDIDADGQGFCQGGFSIDFTKADRVLLGGPGSFYWQGQLISDQVAEIVS

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KY DPNVYSIKYNNQLATRTAQAIFFDDSYLGYSVAVGDFNGDGIDDFVSGVPRAARTL
 GMVYIYDGKNMSSLYNFTGE QMAAYFGFSVAATDINGDDYADVFIGAPLFMDRGSD
 GKLQEVGQVSVSLQRASGDFQTTKLNGFEVFARFGSAIA PLGDLQDQGFNDIAIAAP
 YGGEDKKGIVYIFNGRSTGLNAVPSQILEGQWAARSMPPSFGYSMKGATDIDKNGY
 P DLIVGAFGVDRAILYRARPVITVNAGLEVYPSILNQDNKTCSLPGTALKVSCFNVR
 CLKADGKGVLPRLNFQV ELLDKLKQKGAIRRALFLYSRSPSHSKNMTISRGLM
 QCEELIAYLRDESEFRDKLTPITIFMEYRLDYRTAAD TTGLQPILNQFTPANISRQAH
 LLDCGEDNVCKPKLEVSVSDSQKKIYIGDDNPLTLIVKAQNQGEGAYEALIV SIPLQ
 ADFIGVVRNNEALARLSCAFKTENQTRQVVCDLGNPMKAGTQLLAGLRFVHQQSE
 MDTSVKFDLQIQSS NLFDKVSPVSHKVDLAVLAAVEIRGVSSPDHIFLPIPNWEHKE
 NPETEEDVGPVVQHIYELRNNGPSSFSKAML HLQWPYKYNNNTLLYILHYDIDGPM
 NCTSDMEINPLRIKISSLQTTEKNDTVAGQGERDHLITKRDLALSEGDIH TLGCGVAQ
 CLKIVCQVGRLDGRGKSAILYVKSLLWTETFMNKENQNHSYSLKSSASFNVIEFPYKNL
 PIEDITNST LVTTNVTWGIQPAPMPVPVWVILAVLAGLLLLAVLVFVMYRMGFFKRV
 RPPQEEQEREQLQPHENGEGNSET

Applications

Antibody Production; Functional Study: Recommended usage only, not validated yet;
 Compound Screening: Recommended usage only, not validated yet.

Notes

Heating may cause protein aggregation. Please do not heat this product before electrophoresis. Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION
Gene Name

ITGAV integrin, alpha V [Homo sapiens]

Official Symbol

ITGAV

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Synonyms	ITGAV; integrin, alpha V; antigen identified by monoclonal L230 , integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51) , MSK8, vitronectin receptor , VNRA, VTNR; integrin alpha-V; CD51; integrin alphaVbeta3; vitronectin receptor subunit alpha; antigen identified by monoclonal L230; integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51); MSK8; VNRA; VTNR; DKFZp686A08142;
Gene ID	3685
mRNA Refseq	NM_002210
Protein Refseq	NP_002201
MIM	193210
UniProt ID	P06756
Chromosome Location	2q31-q32
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing-Cross presentation, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Axon guidance, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem;
Function	contributes_to insulin-like growth factor I binding; contributes_to opsonin binding; protein binding; protein kinase C alpha binding; contributes_to protein kinase C binding; receptor activity; transforming growth factor beta binding;