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	MAFPPRRRLRLGPRGLPLLLSGLLLPLCRAFNLDVDSPAEYSGPEGSYFGFAVDFFV PSASSQMFLLVGAPKANT TQPGIVEGGQVLKCDWSSTRRCQPIEFDATGNRDYAK DDPLEFKSHQWFGASVRSKQDKILACAPLYHWRTEMKQ EREPVGTCFLQDGTKTV EYAPCRSQDIDADGQGFCQGGFSIDFTKADRVLLGGPGSFYWQGQLISDQVAEIVS

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	KY DPNVYSIKYNNQLATRTAQAIFDDSYLGYSVAVGDFNGDGIDDFVSGVPRAARTL GMVYIYDGKNMSSLYNFTGE QMAAYFGFSVAATDINGDDYADVFIGAPLFMDRGSD GKLQEVGQVSVSLQRASGDFQTTKLNGFEVFARFGSAIA PLGDLDQDGFNDIAIAAP YGGEDKKGIVYIFNGRSTGLNAVPSQILEGQWAARSMPPSFGYSMKGATDIDKNGY P DLIVGAFGVDRAILYRARPVITVNAGLEVYPSILNQDNKTCSLPGTALKVSCFNVRF CLKADGKGVLPRKLNFQV ELLLDKLKQKGAIRRALFLYSRSPSHSKNMTISRGGLM QCEELIAYLRDESEFRDKLTPITIFMEYRLDYRTAAD TTGLQPILNQFTPANISRQAHI LLDCGEDNVCKPKLEVSVDSDQKKIYIGDDNPLTLIVKAQNQGEGAYEAELIV SIPLQ ADFIGVVRNNEALARLSCAFKTENQTRQVVCDLGNPMKAGTQLLAGLRFSVHQQSE MDTSVKFDLQIQSS NLFDKVSPVVSHKVDLAVLAAVEIRGVSSPDHIFLPIPNWEHKE NPETEEDVGPVVQHIYELRNNGPSSFSKAML HLQWPYKYNNNTLLYILHYDIDGPM NCTSDMEINPLRIKISSLQTTEKNDTVAGQGERDHLITKRDLALSEGDIH TLGCGVAQ CLKIVCQVGRLDRGKSAILYVKSLLWTETFMNKENQNHSYSLKSSASFNVIEFPYKNL PIEDITNST LVTTNVTWGIQPAPMPVPVWVIILAVLAGLLLLAVLVFVMYRMGFFKRV 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;

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