

Recombinant Human ITGAV/ITGB3 Heterodimer Protein, His-tagged

Cat. No. ITGA5-101H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGAV(Phe 31 - Val 992)/ITGB3 (Gly 27 - Asp 718) Heterodimer Protein, Subunit ITGAV is fused with polyhistidine tag at the C-terminus and followed by a acidic tail and subunit ITGB3 contains no tag but a basic tail at the C-terminus was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	ITGAV(Phe 31 - Val 992)/ITGB3 (Gly 27 - Asp 718)
Description	Integrin alpha-V/beta-3 (ITGAV:ITGB3) is a receptor for cytotactin, fibronectin, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, vitronectin and von Willebrand factor. Integrins alpha-IIb/beta-3 and alpha-V/beta-3 recognize the sequence R-G-D in a wide array of ligands. Also, Integrin alpha-V/beta-3 acts as a receptor for herpes virus 8/HHV-8, coxsackievirus A9, Hantaan virus, cytomegalovirus/HHV-5, human metapneumovirus, human parechovirus 1 and west nile virus. Furthermore, in case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.
Predicted N Terminal	The predicted N-terminus is Phe 31 (ITGAV) & Gly 27 (ITGB3)
Form	Lyophilized from 0.22

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	µm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Molecular Mass	Has a calculated MW of 113 kDa (ITGAV) and 81.8 kDa (ITGB3). The reducing (R) protein migrates as 145 kDa (ITGAV) and 100-116 kDa (ITGB3) respectively due to glycosylation.
Endotoxin	Less than 1.0 EU per µg of the Human ITGAV & ITGB3 Heterodimer Protein by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4 centigrade); After reconstitution under sterile conditions for 3 months (-70 centigrade).

GENE INFORMATION

Gene Name	ITGAV integrin, alpha V [Homo sapiens]
Official Symbol	ITGAV
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

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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;