Recombinant Human ITGAV/ITGB3 protein, His-tagged

Cat. No. ITGAV&ITGB3-739H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGAV(Phe 31 - Val 992)/ITGB3(Gly 27 - Asp 718), 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	Phe 31 - Val 992 (ITGAV) & Gly 27 - Asp 718 (ITGB3)
Predicted N Terminal	The predicted N-terminus is Phe 31 (ITGAV) & Gly 27 (ITGB3).
Form	Lyophilized from 0.22 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 predicted N-terminus is Phe 31 (ITGAV) & Gly 27 (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.

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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
mRNA Refseq	NM_001144999
Protein Refseq	NP_001138471
MIM	193210
UniProt ID	P06756
Chromosome Location	2q31-q32
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing-Cross

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	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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