

Active Recombinant Human ITGAVB3

Cat. No. ITGAVB3-103H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGAVB3 protein (Human ITGAV & ITGB3) Phe31–Val992 (Integrin α V) and Gly27–Asp718(Integrin β 3) was co-expressed in CHO Cells.
Species	Human
Source	CHO
ProteinLength	31-992;27-718 a.a.
Description	ITAGV encodes integrin alpha chain V. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. The I-domain containing integrin alpha V undergoes post-translational cleavage to yield disulfide-linked heavy and light chains, that combine with multiple integrin beta chains to form different integrins. Among the known associating beta chains (beta chains 1,3,5,6, and 8; "ITGB1", "ITGB3", "ITGB5", "ITGB6", and "ITGB8"), each can interact with extracellular matrix ligands; the alpha V beta 3 integrin, perhaps the most studied of these, is referred to as the Vitronectin receptor (VNR). In addition to adhesion, many integrins are known to facilitate signal transduction. Alternative splicing results in multiple transcript variants.
Molecular Mass	110.5 kDa (α V subunit), 80.8 kDa (β 3 subunit)
Predicted N terminal	Phe31 & Gly27
Formulation	Lyophilized from a 0.2

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	µm filtered solution in Tris, NaCl and CaCl ₂ . See Certificate of Analysis for details.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Activity	Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human Vitronectin at 1 µg/mL can bind. Recombinant Human Integrin αVβ3 with an apparent K _D < 10 nM.
Endotoxin Level	<0.10 EU per 1 µg of the protein by the LAL method.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Storage	12 months from date of receipt, 20 to 70 °C as supplied. Avoid repeated freeze-thaw cycles.
Official Symbol	ITGAV

GENE INFORMATION

Gene Name	ITGAV integrin, alpha V [Homo sapiens]
Synonyms	ITGAV; integrin, alpha V; antigen identified by monoclonal L230; MSK8; VNRA; integrin alpha-V; CD51; VTNR; integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51); Vitronectin receptor subunit alpha; vitronectin receptor; integrin alphaVbeta3; CD51 antigen; antigen identified by monoclonal antibody L230
Gene ID	3685
mRNA Refseq	NM_002210
Protein Refseq	NP_002201

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MIM	193210
UniProt ID	P06756
Chromosome Location	2q31-q32
Pathway	Adaptive Immune System; Antigen processing-Cross presentation; Arrhythmogenic right ventricular cardiomyopathy (ARVC); Axon guidance
Function	contributes_to insulin-like growth factor I binding; contributes_to opsonin binding; protein binding; contributes_to protein kinase C alpha binding; receptor activity

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