

Active Recombinant Human ITGAVB3

Cat. No. ITGAVB3-104H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGAVB3 protein (Human Integrin α V subunit (Accession# NP_002201, Phe31–Val992), and Human Integrin β 3 subunit (Accession# AAA52589, Gly27–Asp718)) was co-expressed in CHO Cells.
Species	Human
Source	CHO
ProteinLength	31-992;27-718 a.a.
Description	This gene encodes a protein that is a member of the integrin superfamily. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This protein undergoes post-translational cleavage to yield disulfide-linked heavy and light chains that combine with multiple integrin beta chains to form different integrins. This protein has been shown to heterodimerize with beta 1, beta 3, beta 5, beta 6, and beta 8; the heterodimer of alpha v and beta 3 is the Vitronectin receptor. This protein interacts with several extracellular matrix proteins to mediate cell adhesion and may play a role in cell migration. It is proposed that this protein may regulate angiogenesis and cancer progression. Alternative splicing results in multiple transcript variants that encode different protein isoforms.
Predicted N Terminal	Phe31 & Gly27
Form	Lyophilized from 85.4 μ L of a 0.2 μ m filtered solution in 50 mM Tris, 150 mM NaCl

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	and 0.5 mM CaCl ₂ , pH 7.4.
Bio-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.
Molecular Mass	Predicted Molecular Mass: 110.5 kDa (alpha V subunit), 80.8 kDa (beta 3 subunit)SDS-PAGE: 105-150 kDa, reducing conditions
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Avoid repeated freeze-thaw cycles.12 months from date of receipt, -20 to -70 °C as supplied.1 month, 2 to 8 °C under sterile conditions after reconstitution.3 months, -20 to -70 °C under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.

GENE INFORMATION

Gene Name	ITGAV integrin, alpha V [Homo sapiens (human)]
Official Symbol	ITGAV
Synonyms	ITGAV; CD51; MSK8; VNRA; VTNR; integrin, alpha V; integrin alpha-V; integrin alphaVbeta3; vitronectin receptor subunit alpha; antigen identified by monoclonal antibody L230; integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)
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; Antigen processing-Cross presentation; Arrhythmogenic right ventricular cardiomyopathy (ARVC)
Function	contributes_to insulin-like growth factor I binding; contributes_to opsonin binding; contributes_to protein kinase C binding

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