

Active Recombinant Human ITGAV Protein, C-6×His-tagged

Cat. No. ITGAV-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Integrin alpha V (Phe31-Val992, Acidic Tail) with a 6×His tag at C-terminus and Human Integrin beta 1 (Gln21-Asp728, Basic Tail) was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
ProteinLength	Integrin alpha V: Phe31-Val992 Integrin beta 1: Gln21-Asp728
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	Noncovalently-linked heterodimer
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human

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	Fibronectin is immobilized at 2 µg/mL, 100 µL/well, Recombinant Human Integrin alpha V beta 1 binds with an ED50 of 0.08-0.48 µg/mL.
Molecular Mass	Predicted Molecular Mass: 115 kDa (alpha V subunit) & 86 kDa (beta 1 subunit) SDS-PAGE: 120-170 kDa, reducing conditions
N-terminal Sequence Analysis	Phe31 (alpha V subunit) & Gln21 (beta 1 subunit, inferred from enzymatic pyroglutamate treatment revealing Thr22)
Endotoxin	<1.0 EU/µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Reconstitution	Reconstitute at 500 µg/mL in water.
Shipping	The product is shipped at ambient temperature.

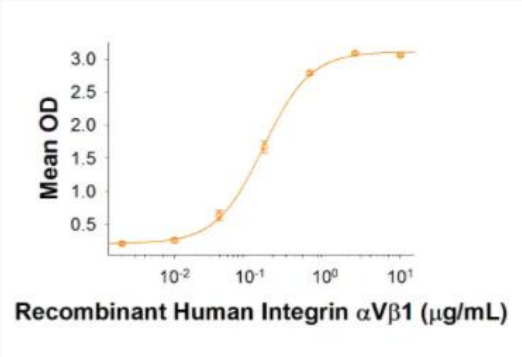
GENE INFORMATION

Gene Name	ITGAV integrin subunit alpha V [Homo sapiens (human)]
Official Symbol	ITGAV
Synonyms	ITGAV; integrin subunit alpha V; integrin alpha-V; antigen identified by monoclonal antibody L230; integrin alphaVbeta3; integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51); vitronectin receptor subunit alpha
Gene ID	3685

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mRNA Refseq	NM_002210
Protein Refseq	NP_002201
MIM	193210
UniProt ID	P06756
Binding Activity  When Recombinant Human Fibronectin is coated at 2 μg/mL Recombinant Human Integrin αV beta 1 binds with an ED50 of 0.08-0.48 μg/mL.	