

Human Integrin alpha V beta 6 (ITGAV&ITGB6) Heterodimer Protein

Cat. No. ITG-HM4V6

Description

Source	Recombinant Human Integrin alpha V beta 6 (ITGAV&ITGB6) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Phe31-Val992(ITGAV) acidic tail & Gly22-Asn707(ITGB6) basic tail.
Accession	P06756-1(ITGAV)&P18564-1(ITGB6)
Molecular Weight	The protein has a predicted MW of 114 kDa (ITGAV)&79.1 kDa (ITGB6). Due to glycosylation, the protein migrates to 90-150 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

ITGAV&ITGB6 is a receptor for fibronectin and cytotactin. It recognizes the sequence R-G-D in its ligands. Internalisation of integrin alpha-V/beta-6 via clathrin-mediated endocytosis promotes carcinoma cell invasion. ITGAV&ITGB6 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G-D-dependent cell adhesion to FBN1.

Assay Data

Tris-Bis PAGE



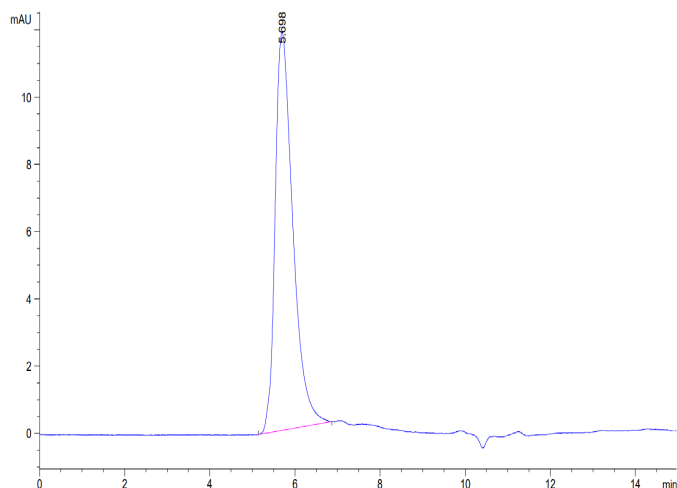
Human ITGAV&ITGB6 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC

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Assay Data

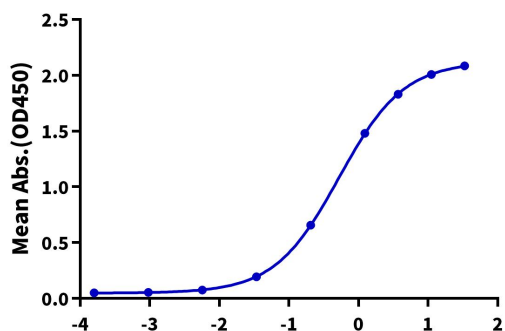


The purity of Human ITGAV&ITGB6 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human ITGAV&ITGB6, His Tag ELISA

0.1µg Human ITGAV&ITGB6, His Tag Per Well



Immobilized Human ITGAV&ITGB6, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC50 of 0.49µg/ml determined by ELISA.