

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



Cat. No. ITG-HM4V6B

## Description

<b>Source</b>	Recombinant Biotinylated Human Integrin alpha V beta 6 (ITGAV&ITGB6) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus of ITGAV.
	It contains Phe31-Val992(ITGAV) acidic tail and Gly22-Asn707(ITGB6) basic tail.
<b>Accession</b>	P06756-1(ITGAV)&P18564-1(ITGB6)
<b>Molecular Weight</b>	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 Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

## Formulation and Storage

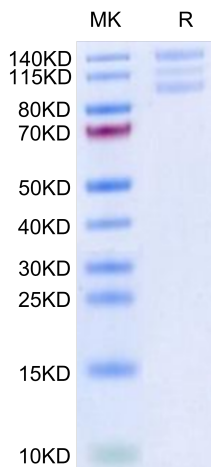
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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.

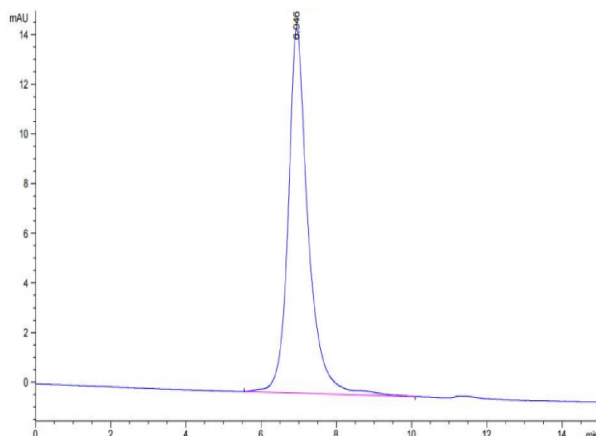
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC

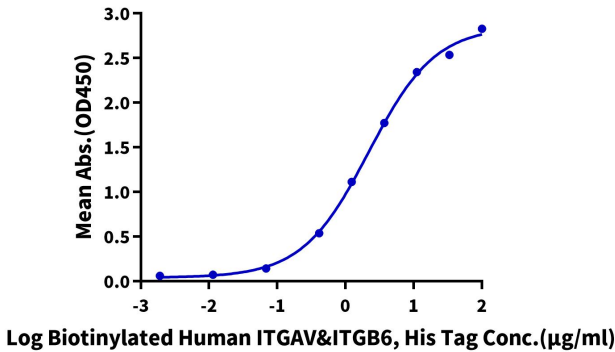


The purity of Biotinylated Human ITGAV&ITGB6 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

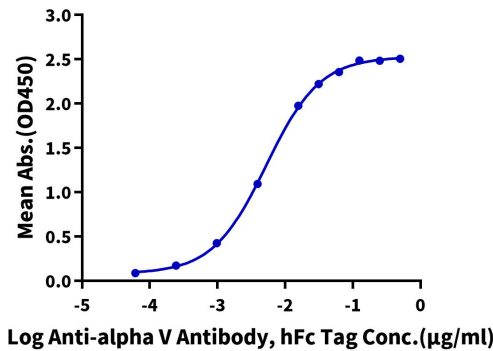
**Biotinylated Human ITGAV&ITGB6, His Tag ELISA**  
0.2µg Human Latent TGF beta 1, His Tag Per Well



Immobilized Human Latent TGF beta 1, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human ITGAV&ITGB6, His Tag with the EC50 of 2.2µg/ml determined by ELISA (QC Test).

ELISA Data

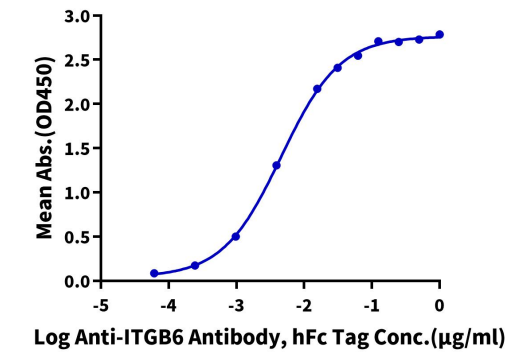
**Biotinylated Human ITGAV&ITGB6, His Tag ELISA**  
0.2µg Biotinylated Human ITGAV&ITGB6, His Tag Per Well



Immobilized Biotinylated Human ITGAV&ITGB6, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-alpha V Antibody, hFc Tag with the EC50 of 5.3ng/ml determined by ELISA.

ELISA Data

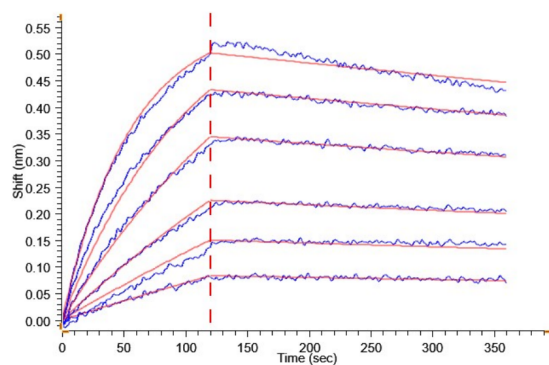
**Biotinylated Human ITGAV&ITGB6, His-Avi Tag ELISA**  
0.5µg Biotinylated Human ITGAV&ITGB6, His-Avi Tag Per Well



Immobilized Biotinylated Human ITGAV&ITGB6, His-Avi Tag at 5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-ITGB6 Antibody, hFc Tag with the EC50 of 4.6ng/ml determined by ELISA.

BLI Data

## Assay Data



Loaded Anti-alpha V Ab., hFc Tag on ProA-Biosensor can bind Biotinylated Human ITGAV&ITGB6, His-Avi Tag with an affinity constant of 27.6 nM as determined in BLI assay (Gator® Prime).