Non-biotinylated 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 of ITGAV.
	It contains Phe31-Val992(ITGAV) acidic tail and 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 Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

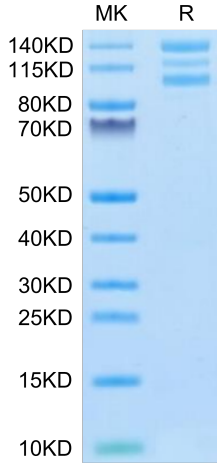
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

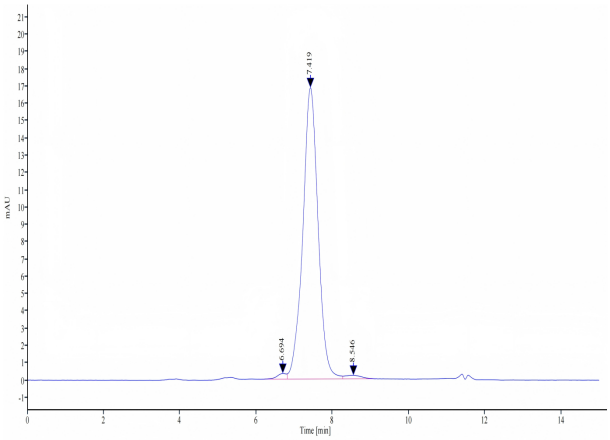
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

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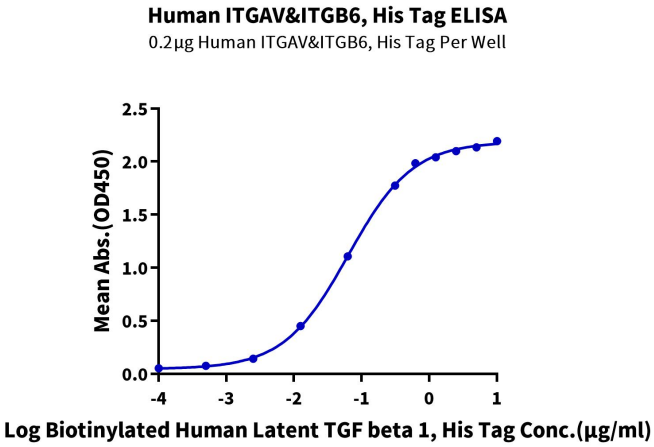
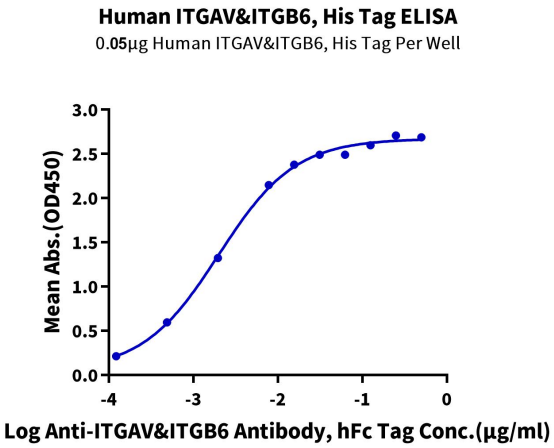
ELISA Data



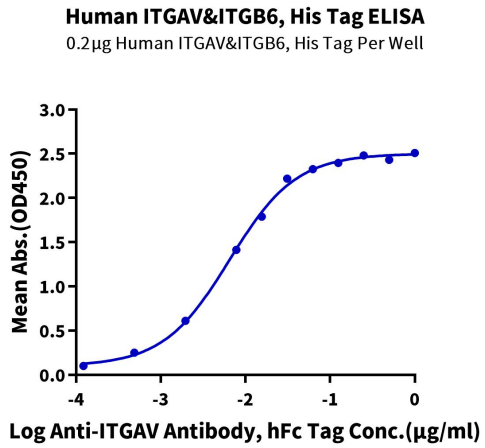
Immobilized Human ITGAV&ITGB6, His Tag at 2 μg/ml (100 μl/well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC50 of 63.3 ng/ml determined by ELISA (QC Test).

ELISA Data



Immobilized Human ITGAV&ITGB6, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-ITGAV&ITGB6 Antibody, hFc Tag with the EC50 of 2.0ng/ml determined by ELISA.

ELISA Data



Immobilized Human ITGAV&ITGB6, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-ITGAV Antibody, hFc Tag with the EC50 of 6.5ng/ml determined by ELISA.

ELISA Data

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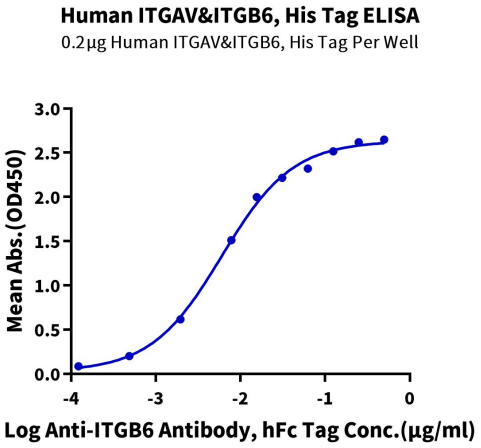
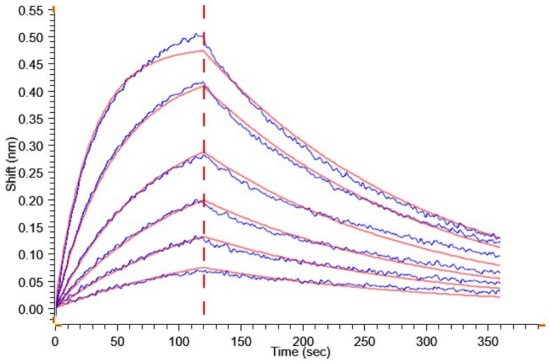
Assay Data



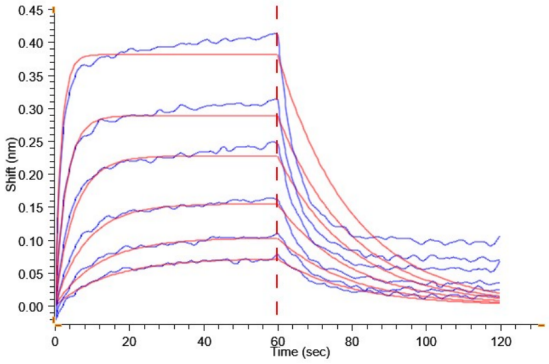
Immobilized Human ITGAV&ITGB6, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-ITGB6 Antibody, hFc Tag with the EC50 of 6.0ng/ml determined by ELISA.

BLI Data



Loaded Anti-ITGAV&ITGB6 Antibody, hFc Tag on ProA-Biosensor can bind Human ITGAV&ITGB6, His Tag with an affinity constant of 18.20 nM as determined in BLI assay.

BLI Data



Loaded Anti-ITGB6 Antibody, hFc Tag on ProA-Biosensor can bind Human ITGAV&ITGB6, His Tag with an affinity constant of 92 nM as determined in BLI assay.

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