

Datasheet for ABIN2870665

ITGAV/ITGB6 Protein (AA 31-992) (His tag)[Go to Product page](#)**3** Images

Overview

Quantity:	100 µg
Target:	ITGAV/ITGB6
Protein Characteristics:	AA 31-992
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ITGAV/ITGB6 protein is labelled with His tag.

Product Details

Sequence:	AA 31-992
Characteristics:	Human ITGAV & ITGB6 Heterodimer Protein, produced by co-expression of ITGAV and ITGB6, has a calculated MW of 113 kDa (ITGAV) and 79.6 kDa (ITGB6). Subunit ITGAV is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB6 contains no tag but a basic tail at the C-terminus. The predicted N-terminus is Phe 31 (ITGAV) & Gly 22 (ITGB6). The reducing (R) protein migrates as 145 kDa (ITGAV) and 115 kDa (ITGB6) respectively due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target: ITGAV/ITGB6

Alternative Name: Integrin alpha V beta 6 ([ITGAV/ITGB6 Products](#))

Background: Integrin alpha V beta 6 is a heterodimer of beta-6 associating with alpha-V. Integrin alpha-V beta-6 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. Also, Integrin alpha-V beta-6 acts as a receptor for coxsackievirus A9 and coxsackievirus B1 as well as herpes simplex virus-1/HHV-1. Furthermore, it binds the TGF-beta latency-associated peptide (LAP) and activates TGF-beta 1 or TGF-beta 3 from large latent complexes. This activation requires interaction with LTBP-1 and fibronectin, and is enhanced by PAR-1.

Molecular Weight: 112.9 kDa (ITGAV) & 79.6 kDa (ITGB6)

Application Details

Restrictions: For Research Use only

Handling

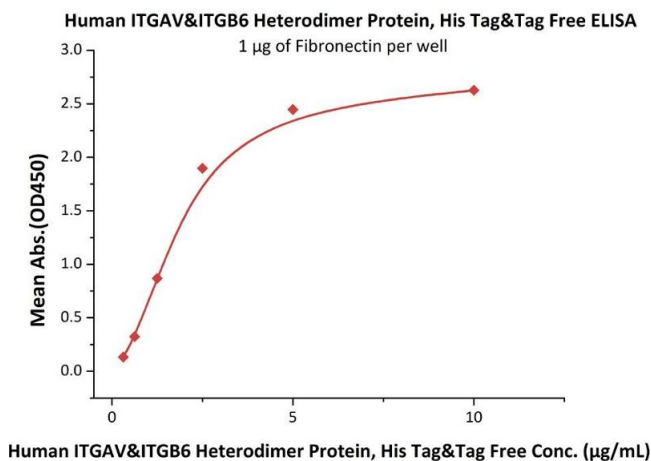
Format: Lyophilized

Buffer: 50 mM Tris, 150 mM NaCl, pH 7.5

Handling Advice: Please avoid repeated freeze-thaw cycles.

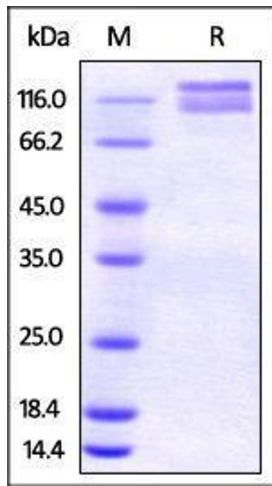
Storage: -20 °C

Images



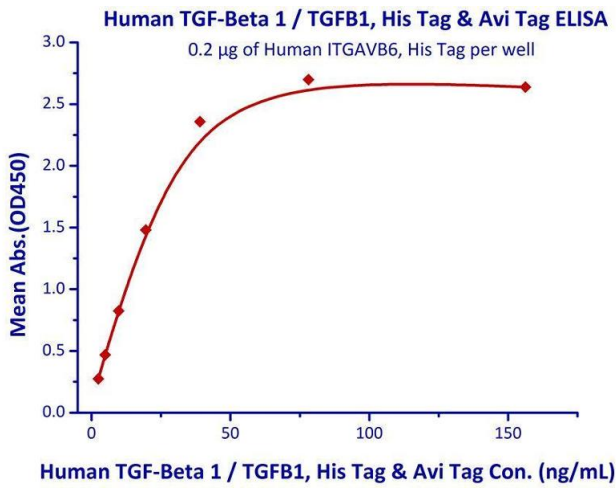
ELISA

Image 1. Immobilized Human Fibronectin at 10 µg/mL (100 µL/well) can bind Human ITGAV&ITGB6 Heterodimer Protein, His Tag&Tag Free (ABIN2870664, ABIN2870665) with a linear range of 0.313-2.5 µg/mL (Routinely tested).



SDS-PAGE

Image 2. Human ITGAV & ITGB6 Heterodimer Protein on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Binding Studies

Image 3. Immobilized Human ITGAVB6, His Tag can bind Human TGF-Beta 1 / TGFB1, His Tag & Avi Tag with a linear range of 2-39 ng/mL.