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Datasheet for ABIN6731251

## ITGAV/ITGB1 Protein (AA 31-992) (His tag,AVI tag,Biotin)

### 2 Images

#### Overview

Quantity:	200 µg
Target:	ITGAV/ITGB1
Protein Characteristics:	AA 31-992
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ITGAV/ITGB1 protein is labelled with His tag,AVI tag,Biotin.

#### Product Details

Sequence:	AA 31-992
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

#### Target Details

Target:	ITGAV/ITGB1
Alternative Name:	Integrin alpha V beta 1 ( <a href="#">ITGAV/ITGB1 Products</a> )
Background:	Integrin alpha-5/beta-1 is a receptor for fibrinogen. Integrin alpha-1/beta-1, alpha-2/beta-1,

## Target Details

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alpha-6/beta-1 and alpha-7/beta-1 are receptors for laminin. Integrin alpha-4/beta-1 is a receptor for VCAM1. It recognizes the sequence Q-I-D-S in VCAM1. Integrin alpha-9/beta-1 is a receptor for VCAM1, cytotactin and osteopontin. It recognizes the sequence A-E-I-D-G-I-E-L in cytotactin. Integrin alpha-V/beta-1 is also a receptor for vitronectin. Beta-1 integrins recognize the sequence R-G-D in a wide array of ligands. Isoform 2 interferes with isoform 1 resulting in a dominant negative effect on cell adhesion and migration (in vitro). When associated with alpha-7/beta-1 integrin, regulates cell adhesion and laminin matrix deposition.

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Molecular Weight: 114.7 kDa (ITGAV) & 83.7 kDa (ITGB1)

## Application Details

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Comment: Ready-to-use Avitag<sup>TM</sup> biotinylated protein:  
The product is exclusively produced using the Avitag<sup>TM</sup> technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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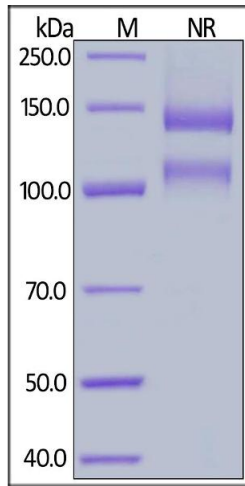
Buffer: 50 mM Tris, 150 mM NaCl, pH 7.5

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Handling Advice: Please avoid repeated freeze-thaw cycles.

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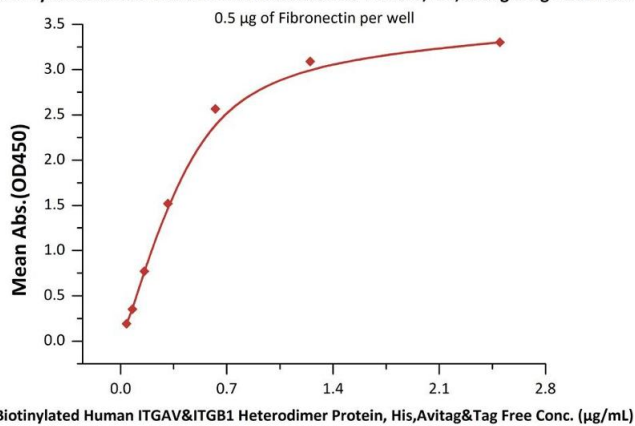
Storage: -20 °C



### SDS-PAGE

**Image 1.** Biotinylated Human ITGAV&ITGB1 Heterodimer Protein, His,Avitag&Tag Free on under ing (NR) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .

### Biotinylated Human ITGAV&ITGB1 Heterodimer Protein, His,Avitag&Tag Free ELISA



### ELISA

**Image 2.** Immobilized Fibronectin at 5 µg/mL (100 µL/well) can bind Biotinylated Human ITGAV&ITGB1 Heterodimer Protein, His,Avitag&Tag Free (ABIN6731251,ABIN6809959) with a linear range of 0.039-0.625 µg/mL (QC tested).