

Datasheet for ABIN5955012

**ITGAV/ITGB5 Protein (AA 31-992) (His tag,AVI tag,Biotin)**[Go to Product page](#)**3** Images

## Overview

Quantity:	200 µg
Target:	ITGAV/ITGB5
Protein Characteristics:	AA 31-992
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ITGAV/ITGB5 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/ITGB5
Alternative Name:	Integrin alpha V beta 5 ( <a href="#">ITGAV/ITGB5 Products</a> )
Background:	Integrin alpha V beta 5 (ITGAV & ITGB5) is expressed on a wide variety of cell types including keratinocytes, fibroblasts, adhesive monocytes, embryonic stem cells, and select endothelium and epithelium. ITGAV & ITGB5 binds ligands containing an RGD motif, notably vitronectin.

## Target Details

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Growth factors that increase PKC activity, such as VEGF or TGF alpha, promote ITGAV & ITGB5-mediated angiogenesis while alpha V beta 3, which may be expressed in the same cell, responds to FGF-basic and TNF alpha. An inhibitor of both down regulates tumor angiogenesis. During lung inflammation, up regulation of ITGAV & ITGB5 on myofibroblasts or infiltrating lymphocytes may contribute to fibrosis by freeing TGF beta from latency.

Molecular Weight: 114.7 kDa (ITGAV) & 81.9 kDa (ITGB5)

## Application Details

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Comment: Ready-to-use Avitag™ biotinylated protein:  
The product is exclusively produced using the Avitag™ 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.

Restrictions: For Research Use only

## Handling

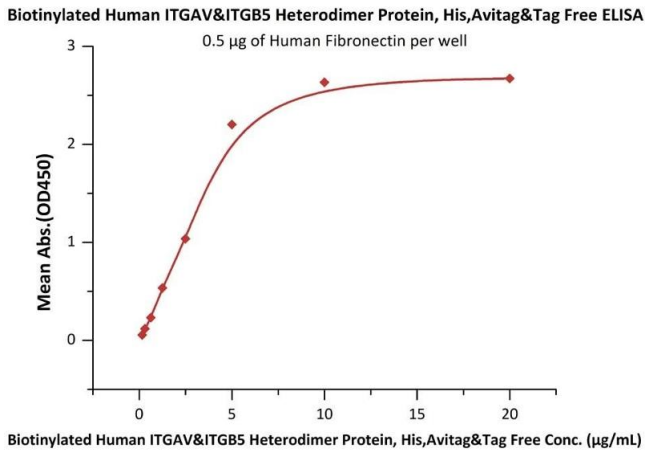
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Format: Lyophilized

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

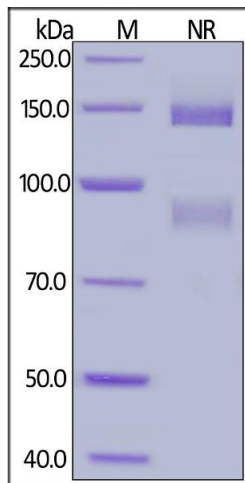
Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



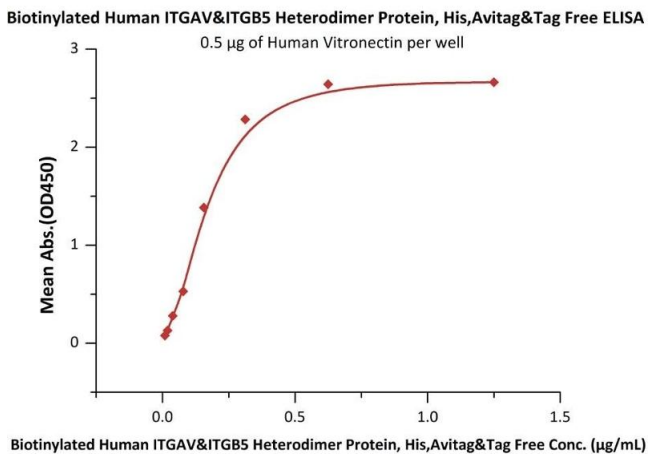
**ELISA**

**Image 1.** Immobilized Human Fibronectin at 5 µg/mL (100 µL/well) can bind Biotinylated Human ITGAV&ITGB5 Heterodimer Protein, His,Avitag&Tag Free (ABIN5955012,ABIN6253518) with a linear range of 0.156-5 µg/mL (Routinely tested).



**SDS-PAGE**

**Image 2.** Biotinylated Human ITGAV&ITGB5 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 % .



**ELISA**

**Image 3.** Immobilized Human Vitronectin at 5 µg/mL (100 µL/well) can bind Biotinylated Human ITGAV&ITGB5 Heterodimer Protein, His,Avitag&Tag Free (ABIN5955012,ABIN6253518) with a linear range of 0.01-0.156 µg/mL (QC tested).