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Datasheet for ABIN4949118

ITGAV/ITGB5 Protein (AA 31-992) (His tag)

2 Images

Overview

Quantity:	100 µg
Target:	ITGAV/ITGB5
Protein Characteristics:	AA 31-992
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ITGAV/ITGB5 protein is labelled with His tag.
Application:	Functional Studies (Func)

Product Details

Sequence:	AA 31-992
Characteristics:	Human ITGAV & ITGB5 Heterodimer Protein, produced by co-expression of ITGAV and ITGB5, has a calculated MW of 113 kDa (ITGAV) and 81.9 kDa (ITGB5). Subunit ITGAV is fused with polyhistidine tag at the C-terminus and followed by a acidic tail and subunit ITGB5 contains no tag but a basic tail at the C-terminus. The reducing (R) protein migrates as 145 kDa (ITGAV) and 100-116 kDa (ITGB5) 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/ITGB5
Alternative Name:	Integrin alpha V beta 5 (ITGAV/ITGB5 Products)
Background:	<p>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. 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.</p>
Molecular Weight:	112.9 kDa (ITGAV) & 81.9 kDa (ITGB5)

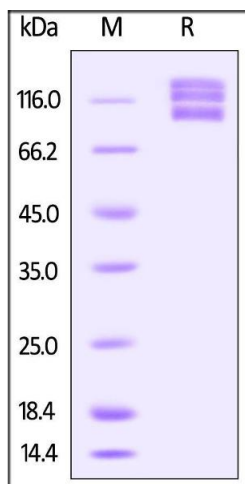
Application Details

Restrictions:	For Research Use only
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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



SDS-PAGE

Image 1. Human ITGAV & ITGB5 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%.

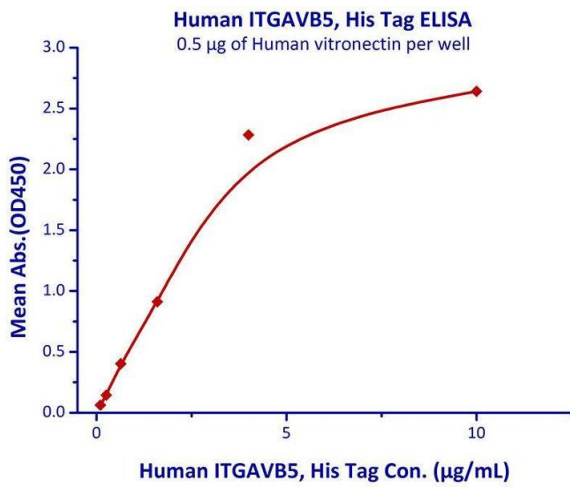


Image 2. Measured by its binding ability in a functional ELISA. Immobilized Human vitronectin at 5µg/mL (100 µL/well) can bind Human ITGAVB5, His Tag with a linear range of 0.1-4 µg/mL.