



Datasheet for ABIN6809904

ITGAV/ITGB8 Protein (AA 31-988) (His tag)



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3 Images

Overview

Quantity:	100 µg
Target:	ITGAV/ITGB8
Protein Characteristics:	AA 31-988
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ITGAV/ITGB8 protein is labelled with His tag.

Product Details

Sequence:	AA 31-988
Purity:	>95 % as determined by reduced SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	ITGAV/ITGB8
Alternative Name:	Integrin alpha V beta 8 (ITGAV/ITGB8 Products)
Background:	Integrin alpha V beta 8 (ITGAV & ITGB8 or ITGAVB8) is expressed in yolk sac, placenta, brain perivascular astrocytes, Schwann cells, renal glomerular mesangial cells and pulmonary epithelial cells. Unlike other alpha V integrins, ITGAVB8 does not appear to assume different activation states, and the cytoplasmic tail does not connect to the cytoskeleton. It binds ligands

Target Details

containing an RGD motif, including vitronectin, fibrin and the latency associated peptide (LAP) of the latent TGF-beta complex. High affinity binding of alpha V beta 8 to LAP allows proteolytic cleavage by MT1-MMP, which releases active TGF-beta. This mechanism differs from that of alpha V beta 6, the other alpha V integrin which can activate TGF-beta from latency through non-proteolytic mechanisms. Downstream effects of TGF-beta activation include control of cell growth and associated vascularization.

Molecular Weight: 112.5 kDa (ITGAV) & 77.5 kDa (ITGB8)

Application Details

Restrictions: For Research Use only

Handling

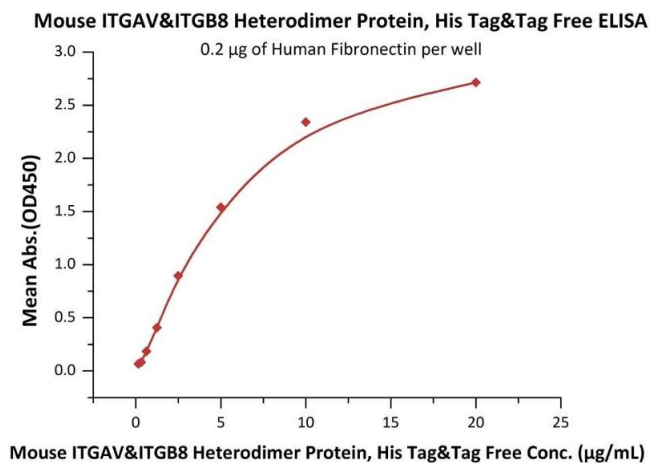
Format: Lyophilized

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

Handling Advice: Please avoid repeated freeze-thaw cycles.

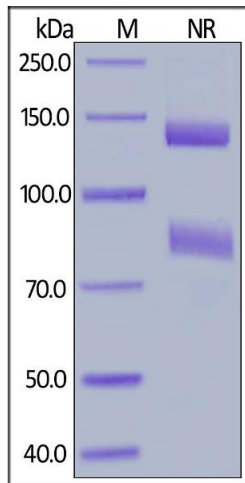
Storage: -20 °C

Images



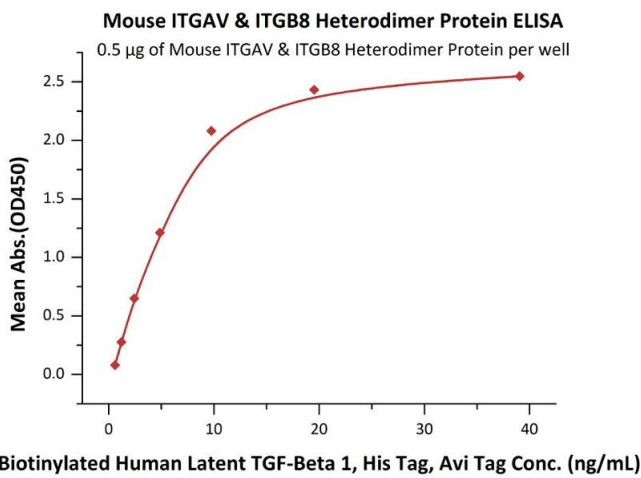
ELISA

Image 1. Immobilized Human Fibronectin at 2 µg/mL (100 µL/well) can bind Mouse ITGAV&ITGB8 Heterodimer Protein, His Tag&Tag Free (ABIN6731263, ABIN6809904) with a linear range of 0.156-5 µg/mL (Routinely tested).



SDS-PAGE

Image 2. Mouse ITGAV&ITGB8 Heterodimer Protein, His Tag&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 Mouse ITGAV&ITGB8 Heterodimer Protein, His Tag&Tag Free (ABIN6731263,ABIN6809904) at 5 µg/mL (100 µL/well) can bind Biotinylated Human Latent 1, His,Avitag (ABIN6386432,ABIN6388257) with a linear range of 1-10 ng/mL (QC tested).