Datasheet for ABIN7275065

ITGAV/ITGB8 Protein (AA 31-992) (His-Avi Tag)

3 Images

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Overview

Quantity:	100 µg
Target:	ITGAV/ITGB8
Protein Characteristics:	AA 31-992
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ITGAV/ITGB8 protein is labelled with His-Avi Tag.

Product Details

Purpose:	Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein
Sequence:	Phe31-Val992(ITGAV) acidic tail & Glu43-Arg684(ITGB8) basic tail
Specificity:	Uni-Prot: P06756-1 (ITGAV), P26012-1 (ITGB8)
Characteristics:	Recombinant Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Phe31-Val992(ITGAV) acidic tail & Glu43-Arg684(ITGB8) basic tail.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human ITGAV&ITGB8, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC50 of 0.39ug/ml

Product Details

	determined by ELISA. See testing image for detail.

Target Details

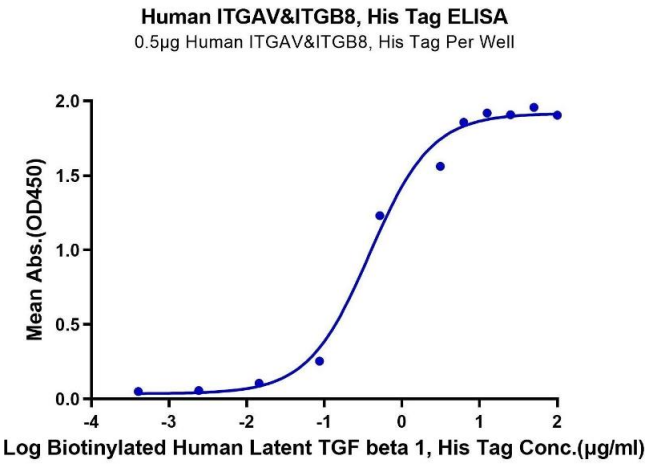
Target:	ITGAV/ITGB8
Alternative Name:	Integrin alpha V beta 8 (ITGAV & ITGB8) Heterodimer (ITGAV/ITGB8 Products)
Background:	Deletions of the genes encoding the integrin αVβ8 (Itgav, Itgb8) have been shown to result in abnormal vascular development in the CNS, including prenatal and perinatal hemorrhage. Other work has indicated that a major function of this integrin in vivo is to promote TGFβ activation.
Molecular Weight:	114 kDa (ITGAV) and 76 kDa (ITGB8). Due to glycosylation, the protein migrates to 90-150 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions:	For Research Use only

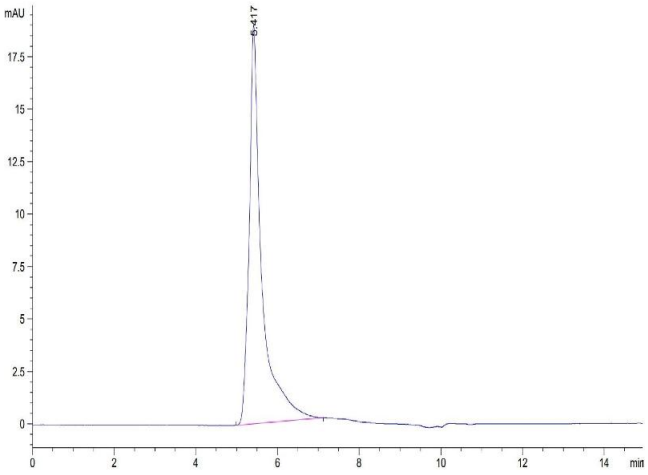
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



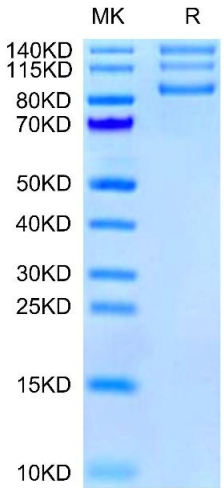
ELISA

Image 1. Immobilized Human ITGAV&ITGB8, His Tag at 5 μg/mL (100 μL/well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC50 of 0.39 μg/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human ITGAV&ITGB8 is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Human ITGAV&ITGB8 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .