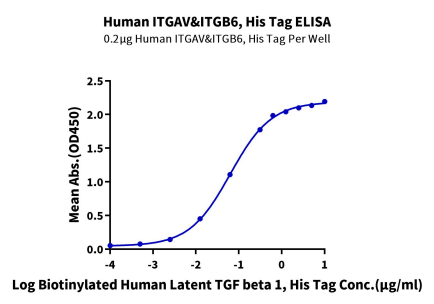
Bioactive HuPro®

ITGAV/ITGB6 (Human) Recombinant Protein

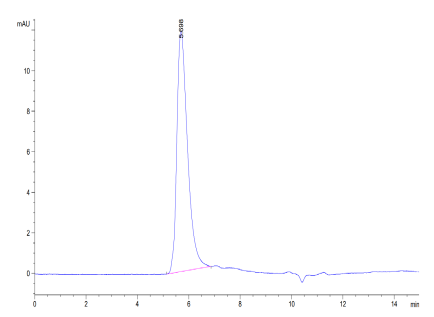
Catalog # P10067 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human ITGAV&ITGB6, His Tag at 2 ug/ml (100 ul/Well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC_{50} of 63.3 ng/ml determined by ELISA.



SEC-HPLC

The purity of Human ITGAV&ITGB6 is greater than 95% as determined by SEC-HPLC.

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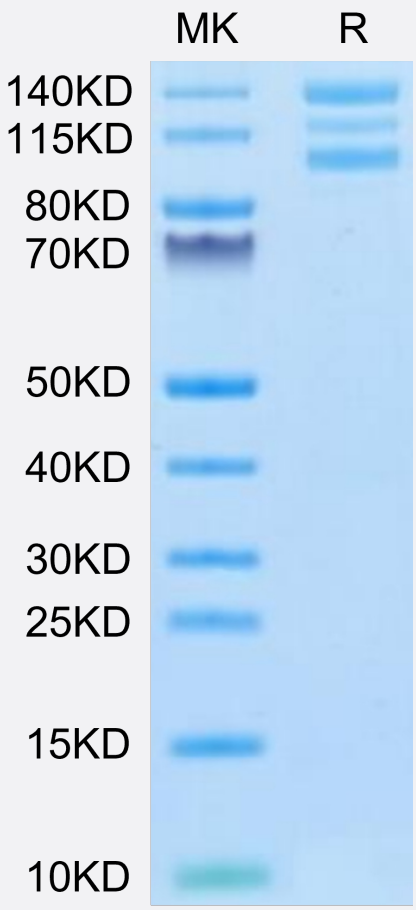

Tris-Bis PAGE

Human ITGAV&ITGB6 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

Specification

Product Description	Human ITGAV/ITGB6 (P06756-1/P18564-1, Phe31-Val992/Gly22-Asn707) partial recombinant protein with His-Avi tag at C-terminus expressed in HEK293 cells.
Sequence	Phe31-Val992;Gly22-Asn707
Host	Human
Theoretical MW (kDa)	114
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Quality Control Testing	SEC-HPLC SEC-HPLC The purity of Human ITGAV&ITGB6 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human ITGAV&ITGB6 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

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Recommend Usage	Biological Activity ELISA SEC-HPLC Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in PBS, pH 7.4 (8% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human ITGAV&ITGB6, His Tag at 2 ug/ml (100 ul/Well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC_{50} of 63.3 ng/ml determined by ELISA.

Gene Info — ITGAV

Entrez GeneID	3685
Protein Accession#	P06756-1;P18564-1
Gene Name	ITGAV
Gene Alias	CD51, DKFZp686A08142, MSK8, VNRA
Gene Description	integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51)
Omim ID	193210
Gene Ontology	Hyperlink
Gene Summary	ITAGV encodes integrin alpha chain V. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. The I-domain containing integrin alpha V undergoes post-translational cleavage to yield disulfide-linked heavy and light chains, that combine with multiple integrin beta chains to form different integrins. Among the known associating beta chains (beta chains 1,3,5,6, and 8; 'ITGB1', 'ITGB3', 'ITGB5', 'ITGB6', and 'ITGB8'), each can interact with extracellular matrix ligands; the alpha V beta 3 integrin, perhaps the most studied of these, is referred to as the Vitronectin receptor (VNR). In addition to adhesion, many integrins are known to facilitate signal transduction. Alternative splicing results in multiple transcript variants. [provided by RefSeq

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Other Designations	Integrin, alpha-V (vitronectin receptor, alpha polypeptide)|antigen identified by monoclonal antibody L230|integrin alpha-V

Gene Info — ITGB6

Entrez GeneID	3694
Protein Accession#	P06756-1;P18564-1
Gene Name	ITGB6
Gene Alias	-
Gene Description	integrin, beta 6
Omim ID	147558
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	-

Pathway

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Cell adhesion molecules (CAMs)
- ECM-receptor interaction
- ECM-receptor interaction
- Focal adhesion
- Focal adhesion
- Hypertrophic cardiomyopathy (HCM)
- Hypertrophic cardiomyopathy (HCM)
- Pathways in cancer
- Regulation of actin cytoskeleton

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- Regulation of actin cytoskeleton
- Small cell lung cancer

Disease

- Anemia
- Arthritis
- Brain Ischemia
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Cardiovascular Diseases
- Cardiovascular Diseases
- Colitis
- Crohn Disease
- Diabetes Mellitus
- Diabetes Mellitus
- Edema
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Hepatitis B
- Inflammatory Bowel Diseases
- Insulin Resistance
- Ovarian Neoplasms
- Priapism

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- Stroke
- Thalassemia
- Tobacco Use Disorder

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