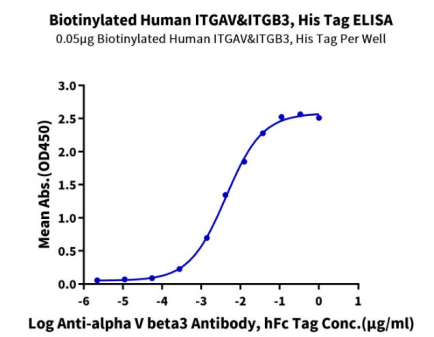
Bioactive HuPro®

ITGAV/ITGB3 (Human) Heterodimer Recombinant Protein (Biotin)

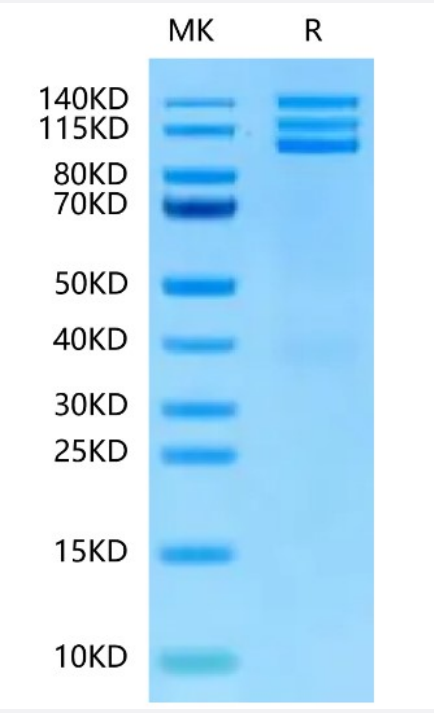
Catalog # P10443 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Biotinylated Human ITGAV&ITGB3, His Tag at 0.5 ug/mL (100 uL/well) on streptavidin (5 ug/mL) precoated plate. Dose response curve for Anti-alpha V beta3 Antibody, hFc Tag with the EC_{50} of 4.2 ng/mL determined by ELISA.



Tris-Bis PAGE

Biotinylated Human ITGAV/ITGB3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

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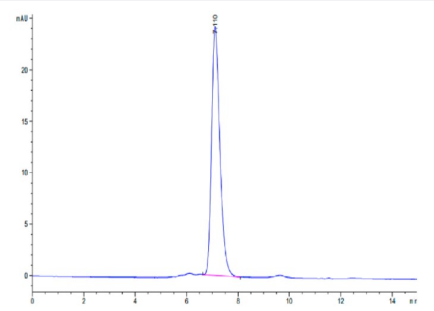

SEC-HPLC

The purity of Biotinylated Human ITGAV/ITGB3 is greater than 95% as determined by SEC-HPLC.

Specification

Product Description	Human ITGAV/ITGB3 (P06756-1/P05106-1, Phe31-Val992/Gly27-Asp718) partial recombinant protein with His-Avi tag at the C-Terminus expressed in HEK293 cells.
Sequence	Phe31-Val992; Gly27-Asp718
Host	Human
Theoretical MW (kDa)	114
Reactivity	Human
Form	Lyophilized
Conjugation	Biotin
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% by Tris-Bis PAGE > 95% by HPLC
Endotoxin Level	< 0.1 EU per 1 ug as determined by the LAL method.
Activity	The EC_{50} was 4.2 ng/mL, measured by ELISA at 0.5 ug/mL.
Recommend Usage	Biological Activity ELISA Tris-Bis PAGE SEC-HPLC The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.22 um filtered solution in PBS, pH 7.4. (8% trehalose).
Storage Instruction	Store at -20°C for 12 months. After reconstitution, store at 4°C for 2-7 days, or store at -80°C for 3-6 months. Aliquot to avoid repeated freezing and thawing.
Note	Please use within one month after protein reconstitution.

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Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Biotinylated Human ITGAV&ITGB3, His Tag at 0.5 ug/mL (100 uL/well) on streptavidin (5 ug/mL) precoated plate. Dose response curve for Anti-alpha V beta3 Antibody, hFc Tag with the EC_{50} of 4.2 ng/mL determined by ELISA.

Gene Info — ITGAV

Entrez GeneID	3685
Protein Accession#	P06756-1; P05106-1
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
Other Designations	Integrin, alpha-V (vitronectin receptor, alpha polypeptide)|antigen identified by monoclonal antibody L230|integrin alpha-V

Gene Info — ITGB3

Entrez GeneID	3690
Protein Accession#	P06756-1; P05106-1
Gene Name	ITGB3

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Gene Alias	CD61, GP3A, GPIIIa
Gene Description	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)
Omim ID	173470
Gene Ontology	Hyperlink
Gene Summary	The ITGB3 protein product is the integrin beta chain beta 3. Integrins are integral cell-surface prot eins composed of an alpha chain and a beta chain. A given chain may combine with multiple part ners resulting in different integrins. Integrin beta 3 is found along with the alpha IIb chain in platelet s. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling. [p rovided by RefSeq
Other Designations	integrin beta chain, beta 3|platelet glycoprotein IIIa

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
- Hematopoietic cell lineage
- Hypertrophic cardiomyopathy (HCM)
- Hypertrophic cardiomyopathy (HCM)
- Pathways in cancer
- Regulation of actin cytoskeleton
- Regulation of actin cytoskeleton
- Small cell lung cancer

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Disease

- Abortion
- Acute Chest Syndrome
- Acute Disease
- Albuminuria
- Amyotrophic lateral sclerosis
- Anemia
- Anemia
- Aneurysm
- Angina
- Angina Pectoris
- Antiphospholipid Syndrome
- Arterial Occlusive Diseases
- Arteriosclerosis
- Arthritis
- Asthma
- Atherosclerosis
- Atrial Fibrillation
- Autistic Disorder
- beta-Thalassemia
- Blood Coagulation Disorders
- Blood Loss
- Blood Platelet Disorders
- Body Weight
- Brain Infarction

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- Brain Ischemia
- Breast cancer
- Breast cancer
- Breast Neoplasms
- Breast Neoplasms
- Cadaver
- Carcinoma
- Carcinoma
- Cardiovascular Diseases
- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Celiac Disease
- Cerebral Hemorrhage
- Cerebral Palsy
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chorioamnionitis
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Colorectal Neoplasms
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis

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- Coronary Stenosis
- Coronary Thrombosis
- Death
- Dengue Hemorrhagic Fever
- Diabetes Complications
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetic Angiopathies
- Disease Progression
- Ductus Arteriosus
- Dyslipidemias
- Edema
- Edema
- Embryo Loss
- Epistaxis
- Fetal Death
- Fetal Membranes
- Gastrointestinal Hemorrhage
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Giant Cell Arteritis
- Glomerulonephritis
- Glomerulosclerosis
- Graft Occlusion
- Hearing Loss
- Heart Defects

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- Heart Diseases
- Helicobacter Infections
- Hemolytic-Uremic Syndrome
- Hemophilia A
- Hemorrhage
- Hemorrhagic Disorders
- Hemorrhagic Fever with Renal Syndrome
- Hepatitis B
- Hepatitis C
- Hip Fractures
- Hypercholesterolemia
- Hyperhomocysteinemia
- Hyperinsulinism
- Hyperlipidemias
- Hyperlipoproteinemia Type II
- Hypersensitivity
- Hypertension
- Infant
- Infertility
- Inflammation
- Inflammatory Bowel Diseases
- Insulin Resistance
- Intermittent Claudication
- Intracranial Aneurysm
- Intracranial Arteriosclerosis
- Intracranial Embolism

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- Intracranial Thrombosis
- Intraoperative Complications
- Ischemic Attack
- Kidney Diseases
- Kidney Failure
- Kidney Neoplasms
- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Lymphoma
- Mental Status Schedule
- Metabolic Diseases
- Metabolic Syndrome X
- Migraine Disorders
- Mitral Valve Stenosis
- Mouth Neoplasms
- Myocardial Infarction
- Myocardial Ischemia
- Neoplasm Invasiveness
- Neoplasms
- Obesity
- Obstetric Labor
- Optic Neuritis
- Optic Neuropathy
- Osteoporosis
- Ovarian cancer

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- Ovarian Neoplasms
- Ovarian Neoplasms
- Pain
- Peptic Ulcer
- Peripheral Vascular Diseases
- Polycystic Ovary Syndrome
- Polycythemia Vera
- Postoperative Complications
- Postoperative Hemorrhage
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Priapism
- Prostate cancer
- Prostatic Neoplasms
- Prosthesis Failure
- Proteinuria
- Pulmonary Disease
- Pulmonary Embolism
- Recurrence
- Respiratory Hypersensitivity
- Respiratory Sounds
- Retinal Artery Occlusion
- Retinal Vein Occlusion
- Stroke
- Subarachnoid Hemorrhage

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- Syndrome
- Thalassemia
- Thrombasthenia
- Thrombocythemia
- Thrombocytopenia
- Thromboembolism
- Thrombophilia
- Thrombosis
- Thrombotic Microangiopathies
- Tobacco Use Disorder
- Tobacco Use Disorder
- Tooth Abnormalities
- Vascular Diseases
- Venous Thrombosis
- Virilism
- Werner syndrome

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