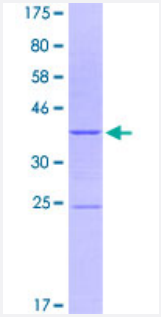
ITGA2 (Human) Recombinant Protein (Q01)

Catalog # H00003673-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ITGA2 partial ORF (NP_002194.2, 30 a.a. - 119 a.a.) recombinant protein with GST tag at N-terminal.
Sequence	YNVGLPEAKIFSGPSSEQFGYAVQQFINPKGNWLLVGSPWSGFPENRMGDVYKCPVDLSTATCE KLNLQTSTSIPNVTEMKTNMSLGLIL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.53
Interspecies Antigen Sequence	Mouse (88); Rat (84)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ITGA2

Entrez GeneID	3673
GeneBank Accession#	NM_002203
Protein Accession#	NP_002194.2
Gene Name	ITGA2
Gene Alias	BR, CD49B, GPIa, VLA-2, VLAA2
Gene Description	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
Omim ID	192974
Gene Ontology	Hyperlink
Gene Summary	This gene product belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane glycoproteins composed of a distinct alpha chain and a common beta chain. They are found on a wide variety of cell types including, T cells, fibroblasts and platelets. Integrins are involved in cell adhesion and also participate in cell-surface mediated signalling. [provided by RefSeq
Other Designations	integrin alpha 2|platelet antigen Br|platelet glycoprotein GPIa|platelet glycoprotein Ia|very late activation protein 2 receptor, alpha-2 subunit

Pathway

- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- ECM-receptor interaction
- Focal adhesion

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

Disease

- Abortion
- Activated Protein C Resistance
- Acute Chest Syndrome
- Acute Disease
- Adenocarcinoma
- Alzheimer disease
- Amyotrophic lateral sclerosis
- Anemia
- Aneurysm
- Angina
- Antiphospholipid Syndrome
- Arterial Occlusive Diseases
- Arteriosclerosis
- Atherosclerosis
- Atrial Fibrillation
- Behcet Syndrome
- Brain Ischemia
- Breast cancer
- Breast Neoplasms

- Cardiovascular Diseases
- Carotid Artery Diseases
- Cerebral Amyloid Angiopathy
- Cerebral Hemorrhage
- Cerebral Infarction
- Cerebrovascular Accident
- Cerebrovascular Disorders
- Chronic Disease
- Colorectal Neoplasms
- Constriction
- Coronary Artery Disease
- Coronary Disease
- Coronary Restenosis
- Coronary Stenosis
- Coronary Thrombosis
- Death
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Retinopathy
- Disease Progression
- Ductus Arteriosus
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Gingival Overgrowth

- Glomerulonephritis
- Graft Occlusion
- Hemolytic-Uremic Syndrome
- Hemorrhage
- Hemorrhagic Disorders
- Hypercholesterolemia
- Hypertension
- Infant
- Inflammation
- Insulin Resistance
- Intracranial Aneurysm
- Kidney Failure
- Limb Deformities
- Lupus Erythematosus
- Lymphatic Metastasis
- Migraine Disorders
- Mouth Neoplasms
- Myocardial Infarction
- Myocardial Ischemia
- Neuroblastoma
- Obesity
- Osteoporosis
- Pain
- Postoperative Complications
- Pre-Eclampsia
- Pregnancy Complications

- Prostate cancer
- Prostatic Neoplasms
- Prosthesis Failure
- Recurrence
- Retinal Vein Occlusion
- Stroke
- Subarachnoid Hemorrhage
- Syndrome
- Thrombocytopenia
- Thromboembolism
- Thrombophilia
- Thrombosis
- Vascular Diseases
- Venous Thrombosis
- von Willebrand Diseases
- Werner syndrome