

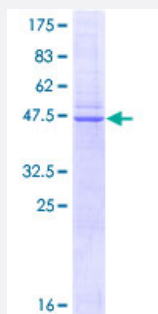
Full-Length

CAV1 (Human) Recombinant Protein (P01)

Catalog # H00000857-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CAV1 full-length ORF (AAH09685, 1 a.a. - 178 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSGGKYVDSEGHLYTVPIREQGNIYKPNNKAMADELSEKQVYDAHTKEIDLVRDPKHLNDDVVKI DFEDVIAEPEGTHSFDGMKASFTTFTVTKYWFYRLLSALFGIPMALIWGNYFAILSFLHWAVVPCIK SFLIEIQCISRVYSIYVHTVCDPLFEAVGKIFSNVRINLQKEI
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	45.21
Interspecies Antigen Sequence	Mouse (95); Rat (95)
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 — CAV1

Entrez GeneID [857](#)

GeneBank Accession# [BC009685.1](#)

Protein Accession# [AAH09685](#)

Gene Name CAV1

Gene Alias BSCL3, CAV, CGL3, MSTP085, VIP21

Gene Description caveolin 1, caveolae protein, 22kDa

Omim ID [601047](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The scaffolding protein encoded by this gene is the main component of the caveolae plasma membranes found in most cell types. The protein links integrin subunits to the tyrosine kinase FYN, an initiating step in coupling integrins to the Ras-ERK pathway and promoting cell cycle progression. The gene is a tumor suppressor gene candidate and a negative regulator of the Ras-p42/44 MAP kinase cascade. CAV1 and CAV2 are located next to each other on chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. By using alternative initiation codons in the same reading frame, two isoforms (alpha and beta) are encoded by a single transcript from this gene. [provided by RefSeq]

Other Designations

OTTHUMP00000025031|caveolae protein, 22-kD|caveolin 1|caveolin 1 caveolae protein, 22kD|caveolin 1, alpha isoform|caveolin 1, beta isoform|caveolin-1 beta isoform protein|cell growth-inhibiting protein 32

Publication Reference

- [Caveolin-1, a binding protein of CD26, is essential for the anti-inflammatory effects of dipeptidyl peptidase-4 inhibitors on human and mouse macrophages.](#)

Hiromura M, Nohtomi K, Mori Y, Kataoka H, Sugano M, Ohnuma K, Kuwata H, Hirano T.

Biochemical and Biophysical Research Communications 2018 Jan; 495(1):223.

Application: Func, PI, Recombinant protein

- [A genetic polymorphism in the CAV1 gene associates with the development of bronchiolitis obliterans syndrome after lung transplantation.](#)

Kastelijn EA, van Moorsel CH, Kazemier KM, Roothaan SM, Ruven HJ, Kwakkel-van Erp JM, van de Graaf EA, Zanen P, van Kessel DA, Grutters JC.

Fibrogenesis & Tissue Repair 2011 Nov; 4:24.

Application: ELISA, Human, Serum

- [Temozolomide modifies caveolin-1 expression in experimental malignant gliomas in vitro and in vivo.](#)

Bruyere C, Abeloos L, Lamoral-Theys D, Senetta R, Mathieu V, Le Mercier M, Kast RE, Cassoni P, Vandenbussche G, Kiss R, Lefranc F.

Transl Oncol 2011 Apr; 4:92.

Application: Treated, Recombinant protein

- [Pathologic Caveolin-1 Regulation of PTEN in Idiopathic Pulmonary Fibrosis.](#)

Xia H, Khalil W, Kahm J, Jessurun J, Kleidon J, Henke CA.

The American Journal of Pathology 2010 Jun; 176(6):2626.

Application: Func, PI, WB-Re, Recombinant protein

- [Overexpression of caveolin-1 in adult T-cell leukemia.](#)

Sawada S, Ishikawa C, Tanji H, Nakachi S, Senba M, Okudaira T, Uchihara JN, Taira N, Ohshiro K, Yamada Y, Tanaka Y, Uezato H, Ohshima K, Sasai K, Burgering BM, Duc Dodon M, Fujii M, Sunakawa H, Mori N.

Blood 2010 Mar; 115(11):2220.

Application: Func, Human, C5/MJ, SLB-1 cells

Pathway

- [Focal adhesion](#)

Disease

- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Anoxia](#)
- [Arrhythmias](#)
- [Atherosclerosis](#)
- [Atrial Fibrillation](#)
- [Atrioventricular Block](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Fibrosis](#)
- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Head and Neck Neoplasms](#)
- [Hypertension](#)
- [Liver Cirrhosis](#)
- [Lung Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)

- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Sick Sinus Syndrome](#)
- [Thrombosis](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)