

Recombinant Human CAV1 protein, GST-tagged

Cat. No. CAV1-26608TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAV1(1 a.a. - 178 a.a) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-178 a.a.
Description	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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	45.21 kDa
AA Sequence	MSGGKYVDSEGHLYTVPIREQGNIYKPNNKAMADELSEKQVYDAHTKEIDLVNRPDKHLNDDVVKIDFEDVIAEP EGTSHSFDGIWKASFTTFTVTKYWFYRLLSALFGIPMALI

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WGIYFAILSFLHIWAVVPCIKSFLIEIQCISRVYSI YVHTVCDPLFEAVGKIFSNVRINLQ
KEI

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

CAV1 caveolin 1, caveolae protein, 22kDa [Homo sapiens]

Official Symbol

CAV1

Synonyms

CAV1; caveolin 1, caveolae protein, 22kDa; CAV, caveolin 1, caveolae protein, 22kD;
caveolin-1; cell growth-inhibiting protein 32; CGL3; BSCL3; VIP21; MSTP085;

Gene ID

857

mRNA Refseq

NM_001172895

Protein Refseq

NP_001166366

MIM

601047

UniProt ID

Q03135

**Chromosome
Location**

7q31

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Pathway

ALK1 signaling events, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Bacterial invasion of epithelial cells, organism-specific biosystem; Bacterial invasion of epithelial cells, conserved biosystem; Basigin interactions, organism-specific biosystem; Canonical Wnt signaling pathway, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem;

Function

cholesterol binding; kinase binding; nitric-oxide synthase binding; patched binding; peptidase activator activity; protein binding; protein complex scaffold; receptor binding; structural molecule activity; syntaxin binding;

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