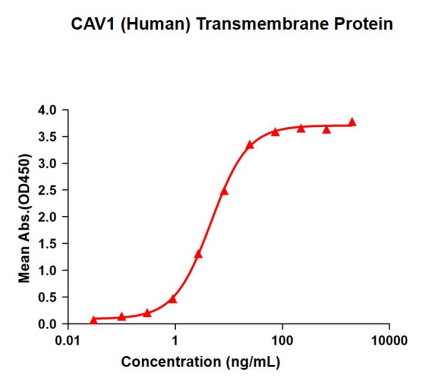
VLP/Nanodisc | Full-Length | HuPro®

CAV1 (Human) Recombinant Protein

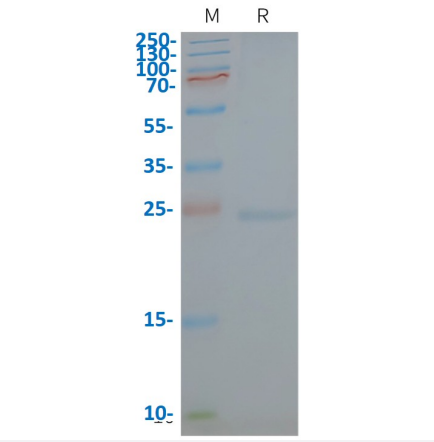
Catalog # P10873 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

ELISA plates were pre-coated with Flag Tag CAV1-Nanodisc (0.2 ug/well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before ELISA reading. From above data, the EC_{50} for anti-Flag monoclonal antibody binding with CAV1-Nanodisc is 4.671 ng/mL.



SDS-PAGE

Human CAV1-Nanodisc, Flag Tag on SDS-PAGE.

Specification

Product Description	Human CAV1 (Q03135, 1 a.a. - 178 a.a.) full-length recombinant protein-Nanodisc.
Sequence	MSGGKYVDSEGHLYTVPIREQGNIYKPNNKAMADELSEKQVYDAHTKEIDLVNRDPKHLNDDVVKI DFEDVIAEPEGTHSFDGIWKASFTTFTVTKYWFYRLLSALFGIPMALIWGIYFAILSFLHIWAVVPCIK SFLIEIQCISRVYSIYVHTVCDPLFEAVGKIFSNVRINLQKEI
Host	Human

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Theoretical MW (kDa)	20.3
Reactivity	Human
Form	Lyophilized
Conjugation	Unconjugated
Preparation Method	Mammalian cell (HEK293) expression system
Recommend Usage	ELISA SDS-PAGE
Storage Buffer	Lyophilized from 20 mM Tris-HCl, 150 mM NaCl, pH 8.0 (5% trehalose).
Storage Instruction	Store at -20°C to -80°C for 12 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Enzyme-linked Immunoabsorbent Assay

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- SDS-PAGE

  Human CAV1-Nanodisc, Flag Tag on SDS-PAGE.

Gene Info — CAV1

Entrez GeneID	857
Protein Accession#	Q03135
Gene Name	CAV1
Gene Alias	BSCL3, CAV, CGL3, MSTP085, VIP21
Gene Description	caveolin 1, caveolae protein, 22kDa
Omim ID	601047
Gene Ontology	Hyperlink

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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

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

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- 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

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