

## Caveolin-1 (CAV1) Recombinant Protein | CAV1 recombinant protein

Recombinant Human Caveolin-1 (CAV1) Protein

|                              |                                           |                            |
|------------------------------|-------------------------------------------|----------------------------|
| CATALOG #<br><b>AAA55980</b> | HOST<br><b>E.coli 11-179 AA (Q03135).</b> | REACTIVITY<br><b>Human</b> |
|------------------------------|-------------------------------------------|----------------------------|

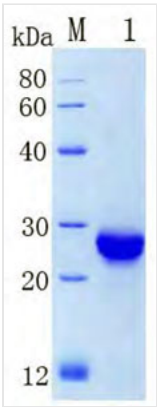
### PRODUCT SYNONYMS

Caveolin-1 (CAV1); Recombinant Human Caveolin-1 (CAV1) Protein; VIP21; Caveolae Protein 22kDa.; CAV1 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E.coli 11-179 AA (Q03135).                                                                                                                                                                                                                                                                                                                                                                                               |
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Purity/Purification     | > 90 % as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                        |
| Form/Format             | Lyophilized powder; PBS (58 mM Na <sub>2</sub> HPO <sub>4</sub> , 17 mM NaH <sub>2</sub> PO <sub>4</sub> , 68 mM NaCl, 5% trehalose, pH 7.4) added with 300 mM Imidazole and 15% glycerol.                                                                                                                                                                                                                               |
| Sequence Positions      | 11-179                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sequence                | GHLYTVPIRE QGNIYKPNNK AMADELSEKQ VYDAHTKEID LVNRDPKHLN DDVVKIDFED VIAPEGTHS<br>FDGIWKASFT TFTVTKYWFY RLLSALFGIP MALIWGIYFA ILSFLHIWAV VPCIKSFLIE IQCISRVYSI<br>YVHTVCDPLF EAVGKIFSNV RINLQKEI                                                                                                                                                                                                                            |
| Source                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Protein Residues        | with N-terminal 6* His-tag.                                                                                                                                                                                                                                                                                                                                                                                              |
| Usage                   | CAV1 Protein - We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| Preparation and Storage | Storage:<br>Store it under sterile conditions at -20°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.<br>**Avoid repeated freeze-thaw cycles.**<br><br>Stability:<br>The recombinant protein is stable for up to 12 months from date of receipt at -80°C.                                                                                                                 |

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CAV1 recombinant protein

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.

NCBI AND UNIPROT INFORMATION

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| NCBI GI #                        | 4972627                                     |
| NCBI GeneID                      | 857                                         |
| UniProt Accession #              | Q03135; Q9UGP1; Q9UNG1; Q9UQH6              |
| Molecular Weight                 | Predicted MW: 27 kDa<br>Observed MW: 27 kDa |
| NCBI Official Full Name          | caveolin 1, partial                         |
| NCBI Official Synonym Full Names | caveolin 1                                  |
| NCBI Official Symbol             | CAV1                                        |
| NCBI Official Synonym Symbols    | CGL3; PPH3; BSCL3; LCCNS; VIP21; MSTP085    |
| NCBI Protein Information         | caveolin-1                                  |
| UniProt Protein Name             | Caveolin-1                                  |
| UniProt Gene Name                | CAV1                                        |
| UniProt Synonym Gene Names       | CAV                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.