

Caveolin-1 Recombinant Protein | CAV1 recombinant protein

Recombinant Dog Caveolin-1

CATALOG #
AAA113188

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

PRODUCT SYNONYMS

Caveolin-1; Recombinant Dog Caveolin-1; Vesicular integral-membrane protein VIP21; CAV1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-178aa; Isoform Alpha
Sequence	MSGGKYVDSE GHLYTVPIRE QGNIYKPNNK AMAEEMSEKQ VYDAHTKEID LVNRDPKHLN DDVVKIDFED VIAPEGTHS FDGIWKASFT TFTVTKYWFY RLLSALFGIP MALIWGIYFA ILSFLHIWAV VPCIKSFLIE IQCISRVYSI YVHTFCDPFF EAVGKIFSNI RINMQKET
Sequence Length	178
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CAV1 recombinant protein

Involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. May act as a scaffolding protein within caveolar membranes. Interacts directly with G-protein alpha subunits and can functionally regulate their activity. Recruits CTNNB1 to caveolar membranes and may regulate CTNNB1-mediated signaling through the Wnt pathway.

References	VIP21, a 21-kD membrane protein is an integral component of trans-Golgi-network-derived transport vesicles.Kurzchalia T.V., Dupree P., Parton R.G., Kellner R., Virta H., Lehnert M., Simons K.J. Cell Biol. 118:1003-1014(1992) Signal transducing molecules and glycosyl-phosphatidylinositol-linked proteins form a caveolin-rich insoluble complex in MDCK cells.Sargiacomo M., Sudol M., Tang Z., Lisanti M.P.J. Cell Biol. 122:789-807(1993) Comparative analyses of multi-species sequences from targeted genomic regions.Thomas J.W., Touchman J.W., Blakesley R.W., Bouffard G.G., Beckstrom-Sternberg S.M., Margulies E.H., Blanchette M., Siepel A.C., Thomas P.J., McDowell J.C., Maskeri B., Hansen N.F., Schwartz M.S., Weber R.J., Kent W.J., Karolchik D., Bruen T.C., Bevan R., Cutler D.J., Schwartz S., Elnitski L., Idol J.R., Prasad A.B., Lee-Lin S.-Q., Maduro V.V.B., Summers T.J., Portnoy M.E., Dietrich N.L., Akhter N., Ayele K., Benjamin B., Cariaga K., Brinkley C.P., Brooks S.Y., Granite S., Guan X., Gupta J., Haghighi P., Ho S.-L., Huang M.C., Karlins E., Laric P.L., Legaspi R., Lim M.J., Maduro Q.L., Masiello C.A., Mastrian S.D., McCloskey J.C., Pearson R., Stantripop S., Tiongson E.E., Tran J.T., Tsurgeon C., Vogt J.L., Walker M.A., Wetherby K.D., Wiggins L.S., Young A.C., Zhang L.-H., Osoegawa K., Zhu B., Zhao B., Shu C.L., De Jong P.J., Lawrence C.E., Smit A.F., Chakravarti A., Haussler D., Green P., Miller W., Green E.D.Nature 424:788-793(2003) Caveolae and sorting in the trans-Golgi network of epithelial cells.Dupree P., Parton R.G., Raposo G., Kurzchalia T.V., Simons K.EMBO J. 12:1597-1605(1993) Oligomeric structure of caveolin implications for caveolae membrane organization.Sargiacomo M., Scherer P.E., Tang Z., Kubler E., Song K.S., Sanders M.C., Lisanti M.P.Proc. Natl. Acad. Sci. U.S.A. 92:9407-9411(1995) Caveolin is palmitoylated on multiple cysteine residues. Palmitoylation is not necessary for localization of caveolin to caveolae.Dietzen D.J., Hastings W.R., Lublin D.M.J. Biol. Chem. 270:6838-6842(1995) Caveolin isoforms differ in their N-terminal protein sequence and subcellular distribution. Identification and epitope mapping of an isoform-specific monoclonal antibody probe.Scherer P.E., Tang Z., Chun M., Sargiacomo M., Lodish H.F., Lisanti M.P.J. Biol. Chem. 270:16395-16401(1995) Caveolin-1 expression inhibits Wnt/beta-catenin/Lef-1 signaling by recruiting beta-catenin to caveolae membrane domains.Galbiati F., Volonte D., Brown A.M., Weinstein D.E., Ben-Ze'ev A., Pestell R.G., Lisanti M.P.J. Biol. Chem. 275:23368-23377(2000)
------------	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	50979110
NCBI GeneID	403980
NCBI Accession #	NP_001003296.1
NCBI GenBank Nucleotide #	NM_001003296.1
UniProt Accession #	P33724; A0M8U8
Molecular Weight	22.6 kDa
NCBI Official Full Name	caveolin-1
NCBI Official Symbol	CAV1
NCBI Official Synonym Symbols	caveolin 1
NCBI Protein Information	caveolin-1
UniProt Protein Name	Caveolin-1
UniProt Gene Name	CAV1
UniProt Synonym Gene Names	CAV
UniProt Entry Name	CAV1_CANLF

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.