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Datasheet for ABIN7555679

SYNPO2 Protein (AA 1-1093) (His tag)

Overview

Quantity:	1 mg
Target:	SYNPO2
Protein Characteristics:	AA 1-1093
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYNPO2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SYNPO2 Protein expressed in mammalian cells.
Sequence:	MGTGDFICIS MTGGAPWGFR LQGGKEQKQP LQVAKIRNQS KASGSGLCCEG DEVVSINGNP CADLTYPEVI KLMESITDSL QMLIKRPSSG ISEALISENE NKNLEHLTHG GYVESTTLQI RPAKTQCTE FFLAPVKTEV PLAENQRSGP DCAGSLKEET GPSYQRAPQM PDSQRGRVAE ELILREKVEA VQPGPVVELQ LLSLSQERHKG ASGPLVALPG AEKSKSPDPD PNLSHDRIVH INSIPTNEKA DPFLRSSKII QISSGRELRV IQESEAGDAG LPRVEVILDC SDRQKTEGCR LQAGKECVDS PVEGGQSEAP PSLVSFAVSS EGTEQGEDPR SEKDHSRPHK HRARHARLRR SESLSEKQVK EAKSKCKSIA LLLTDAPNPN SKGVLMFKKR RRRARKYTLV SYGTGELERE ADEEEEGDKE DTCEVAFLGA SESEVDEELL SDVDDNTQVV NFDWDSGLVD IEKKLNRGDK MEMLPD TTGK GALMFAKRRE RMDQITAQKE EDKVGGTSPSR EQDAAQTDGL RTTTSYQRKE EESVRTQSSV SKSYIEVSHG LGHVPQQNGF SGTSETANIQ RMVPMNRTAK PFPGSVNQPA TPFSPTRNMT SPIADFPAPP PYSAVTPPPD AFSRGVSSPI AGPAQPPWP QPAPWSQPAF

YDSSERIASR DERISVPAKR TGILQEAKRR STTKPMFTFK EPKVSPNPEL LSLQNSEGK
RGTGAGGDSG PEEDYLSLGA EACNFMQSSS AKQKTPPPVA PKPAVKSSSS QPVTVPSPVW
SPGVAPTQPP AFPTSNPSKG TVVSSIKIAQ PSYPPARPAS TLNVAGPFKG PQAAVASQNY
TPKPTVSTPT VNAVQPGAVG PSNELPGMSG RGAQLFAKRQ SRMEKYVWDS DTVQHAARA
QSPTPSLPAS WKYSSNVRAP PPVAYNPIHS PSYPLAALKS QPSAAQPSKM GKKKGKPLN
ALDVMKHQPY QLNASLFTFQ PPDAKDGLPQ KSSVKVNSAL AMKQALPPRP VNAASPTNVQ
ASSVYSVPAY TSPPSFFAEA SSPVSASPVP VGIPTSPKQE SASSSYFVAP RPKFSAKSG
VTIQVWKPSV VEE **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

SYNPO2

Alternative Name:

SYNPO2 ([SYNPO2 Products](#))

Background:

Synaptopodin-2 (Genethonin-2) (Myopodin),FUNCTION: Has an actin-binding and actin-bundling activity. Can induce the formation of F-actin networks in an isoform-specific manner (PubMed:24005909, PubMed:23225103). At the sarcomeric Z lines is proposed to act as

Target Details

adapter protein that links nascent myofibers to the sarcolemma via ZYX and may play a role in early assembly and stabilization of the Z lines. Involved in autophagosome formation. May play a role in chaperone-assisted selective autophagy (CASA) involved in Z lines maintenance in striated muscle under mechanical tension, may link the client-processing CASA chaperone machinery to a membrane-tethering and fusion complex providing autophagosome membranes (By similarity). Involved in regulation of cell migration (PubMed:22915763, PubMed:25883213). May be a tumor suppressor (PubMed:16885336).
{ECO:0000250|UniProtKB:D4A702, ECO:0000250|UniProtKB:Q91YE8, ECO:0000269|PubMed:22915763, ECO:0000269|PubMed:23225103, ECO:0000269|PubMed:24005909, ECO:0000269|PubMed:25883213, ECO:0000305|PubMed:16885336, ECO:0000305|PubMed:20554076}., FUNCTION: [Isoform 1]: Involved in regulation of cell migration. Can induce formation of thick, irregular actin bundles in the cell body. {ECO:0000269|PubMed:22915763, ECO:0000269|PubMed:24005909}., FUNCTION: [Isoform 2]: Involved in regulation of cell migration. Can induce long, well-organized actin bundles frequently orientated in parallel along the long axis of the cell showing characteristics of contractile ventral stress fibers. {ECO:0000269|PubMed:22915763, ECO:0000269|PubMed:24005909}., FUNCTION: [Isoform 3]: Involved in regulation of cell migration. Can induce an amorphous actin meshwork throughout the cell body containing a mixture of long and short, randomly organized thick and thin actin bundles. {ECO:0000269|PubMed:22915763, ECO:0000269|PubMed:24005909}., FUNCTION: [Isoform 4]: Can induce long, well-organized actin bundles frequently orientated in parallel along the long axis of the cell showing characteristics of contractile ventral stress fibers. {ECO:0000269|PubMed:24005909}., FUNCTION: [Isoform 5]: Involved in regulation of cell migration in part dependent on the Rho-ROCK cascade, can promote formation of nascent focal adhesions, actin bundles at the leading cell edge and lamellipodia (PubMed:22915763, PubMed:25883213). Can induce formation of thick, irregular actin bundles in the cell body, the induced actin network is associated with enhanced cell migration in vitro. {ECO:0000269|PubMed:22915763, ECO:0000269|PubMed:24005909, ECO:0000269|PubMed:25883213}.

Molecular Weight: 117.5 kDa

UniProt: [Q9UMS6](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a

Application Details

guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months
