Synaptopodin-2 (SYNPO2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Synaptopodin-2 (SYNPO2), Recombinant Protein
Full Product Name	Recombinant Human Synaptopodin-2 (SYNPO2) , partial
Product Gene Name	SYNPO2 recombinant protein
Product Synonym Gene Name	SYNPO2
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	74,762 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9UMS6
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SYNPO2 recombinant protein	MBS1356464 is a recombinant protein targeting SYNPO2. Also known as Recombinant Human Synaptopodin-2 (SYNPO2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of SYNPO2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYNPO2. It may not necessarily be applicable to this product.

NCBI GI #	193083185
NCBI GeneID	171024
NCBI Accession #	NP_001122405.1
UniProt Primary Accession #	Q9UMS6
UniProt Secondary Accession #	Q9UK89; B2RWP6; B2Y8J9; C6H0M7; S5XAM4
UniProt Related Accession #	Q9UMS6
GenBank Nucleotide #	NM_001128933.2
NCBI Official Full Name	synaptopodin-2 isoform b

NCBI Official Synonym Full Names	synaptopodin 2
NCBI Official Symbol	SYNPO2
UniProt Protein Name	Synaptopodin-2
UniProt Synonym Protein Names	Genethonin-2; Myopodin
Protein Family	Synaptopodin
UniProt Gene Name	SYNPO2
NCBI Protein Information	synaptopodin-2
UniProt Comments for SYNPO2	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 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 (). Involved in regulation of cell migration (PubMed:22915763, PubMed:25883213). May be a tumor suppressor (PubMed:16885336).
Research Articles on SYNPO2	**1.** These findings uncover a suppressive role of SYNPO2 in triple-negative breast cancer (TNBC) metastasis via inhibition of YAP/TAZ, and suggest that SYNPO2 might provide a potential prognosis marker and novel therapeutic strategy.
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