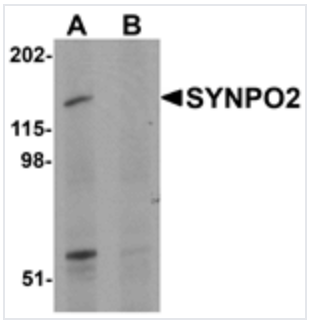
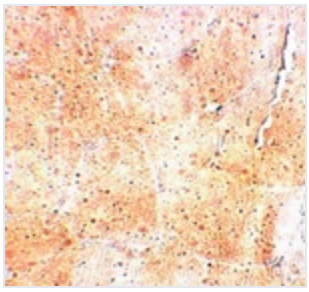
SYNPO2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SYNPO2, Polyclonal Antibody
Full Product Name	SYNPO2 Antibody
Product Gene Name	anti-SYNPO2 antibody
Product Synonym Names	Synaptopodin 2, myopodin
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied in PBS containing 0.02% sodium azide.
Purity/Purification	Affinity chromatography purified via peptide column
Preparation and Storage	Can be stored at -20 degree C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Molecular Weight	133,081 Da
Immunogen Type	Peptide
Immunogen Description	Raised against a 20 amino acid peptide near the amino terminus of human SYNPO2.
Target Name	SYNPO2
Product Categories/Family for anti-SYNPO2 antibody	Total protein Ab
Applications Tested/Suitable for anti-SYNPO2 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-SYNPO2 antibody	SYNPO2 was initially identified as myopodin, a member of the synaptopodin family that contains one PPXY motif and multiple PXXP motifs. It colocalizes with alpha-actinin and is found at the Z-disc and during stress conditions will translocate to the nucleus, suggesting that it is part of signaling pathways in addition to its function as a structural protein. SYNPO2 has been shown to bind to calmodulin, alpha-actinin, and smooth muscle myosin and will stimulate actin polymerization in a calmodulin dependent manner, consistent with its proposed role in organizing the cytoskeleton. While deletion of SYNPO2 has been reported to be highly correlated with the invasiveness of prostate cancers, other reports suggest that down-regulation of SYNPO2 reduces the invasiveness and motility of prostate cancer cells.
Other Notes	Small volumes of anti-SYNPO2 antibody 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.
Searchable Terms for SYNPO2 purchase	MBS9402165 is an antibody targeting SYNPO2. Also known as SYNPO2 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-SYNPO2 antibody
Western blot analysis of SYNPO2 in human skeletal muscle tissue lysate with SYNPO2 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry (IHC) of anti-SYNPO2 antibody
Immunohistochemistry of SYNPO2 in mouse skeletal muscle tissue with SYNPO2 antibody at 5 ug/mL.

ADDITIONAL DETAILS

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

NCBI GI #	193083183
NCBI GeneID	171024
NCBI Accession #	NP_597734
UniProt Secondary Accession #	Q9UK89; B2RWP6; B2Y8J9; S5XAM4
UniProt Related Accession #	Q9UMS6
GenBank Nucleotide #	NM_133477.2
NCBI Official Full Name	synaptopodin-2 isoform a
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
UniProt Entry Name	SYNP2_HUMAN
NCBI Protein Information	synaptopodin-2
UniProt Comments for SYNPO2	Has an actin-binding and actin-bundling activity.
Research Articles on SYNPO2	**1.** myopodin is epigenetically modified in colon cancer
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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