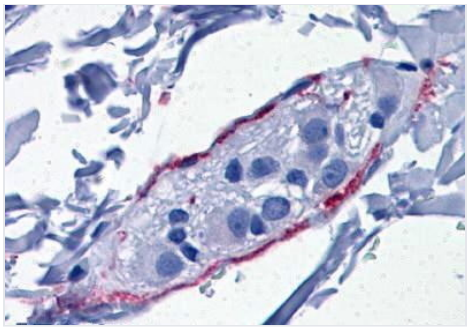
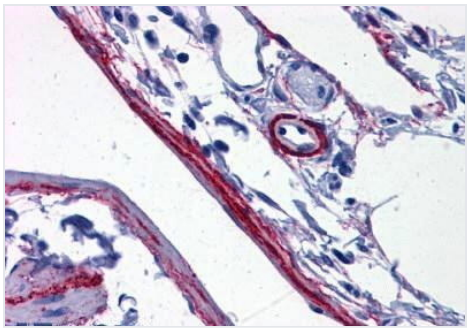
SYNPO Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SYNPO, Polyclonal Antibody
Full Product Name	SYNPO, CT (Synaptopodin, KIAA1029)
Product Gene Name	anti-SYNPO antibody
Product Synonym Names	Anti -SYNPO, CT (Synaptopodin, KIAA1029)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, 0.02% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human SYNPO. Species sequence homology: mouse and rat.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	99,463 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (149980642..150038792). Location: 5q33.1
OMIM	608155
3D Structure	ModBase 3D Structure for Q8N3V7
Immunogen	Synthetic peptide corresponding to 17aa from human SYNPO at C-terminus.
Product Categories/Family for anti-SYNPO antibody	Antibodies; Abs to Binding Proteins
Applications Tested/Suitable for anti-SYNPO antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-SYNPO antibody	Suitable for use in ELISA, Western Blot and Immunohistochemistry. Dilution: Western Blot: 1-2ug/ml Immunohistochemistry (Formalin fixed paraffin embedded): 5ug/ml
Related Product Information for anti-SYNPO antibody	Actin-associated protein that may play a role in modulating actin-based shape and motility of dendritic spines and renal podocyte foot processes. Seems to be essential for the formation of spine apparatuses in spines of telencephalic neurons, which is involved in synaptic plasticity.
Other Notes	Small volumes of anti-SYNPO 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 SYNPO purchase	MBS6012363 is an antibody targeting SYNPO. Also known as SYNPO, CT (Synaptopodin, KIAA1029). Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-SYNPO antibody
Human Perineural Processes: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunohistochemistry (IHC) of anti-SYNPO antibody
Human Perivascular Processes: Formalin-Fixed, Paraffin-Embedded (FFPE)

ADDITIONAL DETAILS

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

NCBI GI #	158303333
NCBI GeneID	11346
NCBI Accession #	NP_001103444.1
UniProt Primary Accession #	Q8N3V7
UniProt Secondary Accession #	O15271; Q9UPX1; A5PKZ8; D3DQG8
UniProt Related Accession #	Q8N3V7
GenBank Nucleotide #	NM_001109974.2
NCBI Official Full Name	synaptopodin isoform B
NCBI Official Synonym Full Names	synaptopodin
NCBI Official Symbol	SYNPO
UniProt Protein Name	Synaptopodin
Protein Family	Synaptopodin
UniProt Gene Name	SYNPO
UniProt Synonym Gene Names	KIAA1029
UniProt Entry Name	SYNPO_HUMAN
NCBI Protein Information	synaptopodin
NCBI Summary for SYNPO	Synaptopodin is an actin-associated protein that may play a role in actin-based cell shape and motility. The name synaptopodin derives from the protein's associations with postsynaptic densities and dendritic spines and with renal podocytes (Mundel et al., 1997 [PubMed 9314539]).[supplied by OMIM, Mar 2008]

UniProt Comments for SYNPO	SYNPO: an actin-associated protein that may play a role in modulating actin-based shape and motility of dendritic spines and renal podocyte foot processes. Seems to be essential for the formation of spine apparatuses in spines of telencephalic neurons, which is involved in synaptic plasticity. Protein type: Cytoskeletal; Actin-binding Chromosomal Location of Human Ortholog: 5q33.1 Cellular Component: postsynaptic membrane; tight junction; postsynaptic density; cytoplasm; dendritic spine; stress fiber; perikaryon; actin cytoskeleton Molecular Function: protein binding; actin binding Biological Process: regulation of stress fiber formation; positive regulation of actin filament bundle formation
Research Articles on SYNPO	**1.** These results suggested that the SA is an important component of the molecular machinery controlling the calcium-dependent accumulation of AMPA-receptors (AMPA-R) at excitatory synapses. [review]
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