SYNPO Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SYNPO, Polyclonal Antibody
Full Product Name	SYNPO Conjugated Antibody
Product Gene Name	anti-SYNPO antibody
Product Synonym Names	KIAA1029; Synaptopodin
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total SYNPO protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	73,667 Da
OMIM	608155
3D Structure	ModBase 3D Structure for Q8N3V7
Immunogen	Synthetic peptide of human SYNPO
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-SYNPO antibody	Most Applications
Application Notes for anti-SYNPO antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-SYNPO antibody	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.
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	MBS9451467 is an antibody targeting SYNPO. Also known as SYNPO Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	261278297
NCBI GeneID	11346
NCBI Accession #	NP_001159680
UniProt Primary Accession #	Q8N3V7
UniProt Secondary Accession #	O15271; Q9UPX1; A5PKZ8; D3DQG8
UniProt Related Accession #	Q8N3V7
GenBank Nucleotide #	NM_001166208.1
NCBI Official Full Name	synaptopodin isoform C
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: Actin-binding; Cytoskeletal Chromosomal Location of Human Ortholog: 5q33.1 Cellular Component: postsynaptic membrane; tight junction; cytoplasm; postsynaptic density; 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.** Shear stress induced actin binding proteins including SYNPO may play a critical role in endothelial wound healing.
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