SYN1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	SYN1, Monoclonal Antibody
Full Product Name	SYN1 (Synapsin I, SYN1a, SYN1b, SYNI) (MaxLight 750)
Product Gene Name	anti-SYN1 antibody
Product Synonym Names	Synapsin I; SYN1a; SYN1b; SYNI
Clonality	Monoclonal
Isotype	IgG
Clone Number	3F12
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified
Specificity	Recognizes SYN1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	300491
3D Structure	ModBase 3D Structure for P17600
Immunogen	SYN1 (NP_008881, 362aa-450aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	EIFGGLDICAVEALHGKDGRDHIIEVVGSSMPLIGDHQDEDKQLIVELVVNKMAQALPRQRQRDASPGRGSHGQTPSPGALPLGRQTSQ
Conjugate	MaxLight750
Product Categories/Family for anti-SYN1 antibody	Antibodies; Neuroscience
Applications Tested/Suitable for anti-SYN1 antibody	Western Blot (WB)
Application Notes for anti-SYN1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SYN1 antibody	This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. This member of the synapsin family plays a role in regulation of axonogenesis and synaptogenesis. The protein encoded serves as a substrate for several different protein kinases and phosphorylation may function in the regulation of this protein in the nerve terminal. Mutations in this gene may be associated with X-linked disorders with primary neuronal degeneration such as Rett syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]
Other Notes	Small volumes of anti-SYN1 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 SYN1 purchase	MBS6240847 is an antibody targeting SYN1. Also known as SYN1 (Synapsin I, SYN1a, SYN1b, SYNI) (MaxLight 750). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYN1. It may not necessarily be applicable to this product.

NCBI GI #	19924099
NCBI GeneID	6853
NCBI Accession #	NP_008881
UniProt Primary Accession #	P17600
UniProt Related Accession #	P17600
GenBank Nucleotide #	NP_008881.2
NCBI Official Full Name	synapsin-1 isoform Ia
NCBI Official Synonym Full Names	synapsin I
NCBI Official Symbol	SYN1
NCBI Official Synonym Symbols	SYNI; MRX50; SYN1a; SYN1b
UniProt Protein Name	Synapsin-1
UniProt Synonym Protein Names	Brain protein 4.1; Synapsin I
Protein Family	Sister chromatid cohesion 1 protein
UniProt Gene Name	SYN1
UniProt Entry Name	SYN1_HUMAN
NCBI Protein Information	synapsin-1
UniProt Comments for SYN1	SYN1: neuronal phosphoprotein which associates with the cytoplasmic surface of synaptic vesicles and binds to the cytoskeleton. May function in the regulation of neurotransmitter release and of axonogenesis and synaptogenesis. Mutations may be associated with X-linked disorders with primary neuronal degeneration such as Rett syndrome. Two differentially spiced isoforms have been reported. Protein type: Vesicle Chromosomal Location of Human Ortholog: Xp11.23 Cellular Component: Golgi apparatus; synaptic vesicle; dendrite; cytosol; cell junction Molecular Function: protein binding; transporter activity; actin binding; protein kinase binding; calcium-dependent protein binding; catalytic activity; ATP binding Biological Process: synaptic transmission; metabolic process; neurotransmitter secretion; regulation of neurotransmitter secretion Disease: Epilepsy, X-linked, With Variable Learning Disabilities And Behavior Disorders
Research Articles on SYN1	**1.** A surface-based group study using novel diffusion and quantitative multiparametric imaging on 13 SYN1Q555X mutation carriers and 13 age- and sex-matched controls. Results showed significant microstructural alterations in several regions usually involved in oral and written language as well as dyslexia. The most significant changes in these regions were lowered mean diffusivity and increased fractional anisotropy.
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