Synapsin I (SYN1) Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	Synapsin I (SYN1), Polyclonal Antibody
Full Product Name	Synapsin I (phospho Ser605) Polyclonal Antibody
Product Gene Name	anti-SYN1 antibody
Clonality	Polyclonal
Molecular Weight	70,033 Da
OMIM	300491
3D Structure	ModBase 3D Structure for P17600
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-SYN1 antibody	MBS8520923 is an antibody targeting SYN1. Also known as Synapsin I (phospho Ser605) Polyclonal Antibody.
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.

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_008881.2
UniProt Primary Accession #	P17600
UniProt Secondary Accession #	O75825; Q5H9A9; B1AJQ1
UniProt Related Accession #	P17600
GenBank Nucleotide #	NM_006950.3
NCBI Official Full Name	synapsin-1 isoform Ia
NCBI Official Synonym Full Names	synapsin I
NCBI Official Symbol	SYN1
NCBI Official Synonym Symbols	SYNI; 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
NCBI Protein Information	synapsin-1

NCBI Summary for SYN1	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, Jul 2008]
UniProt Comments for SYN1	Neuronal phosphoprotein that coats synaptic vesicles, binds to the cytoskeleton, and is believed to function in the regulation of neurotransmitter release. The complex formed with NOS1 and CAPON proteins is necessary for specific nitric-oxid functions at a presynaptic level.
Research Articles on SYN1	**1.** These findings contribute to previous work showing dysregulation of Synapsins, particularly SYN2, in mood disorders and improve our understanding of the regulatory mechanisms that precipitate these changes likely leading to the BD or MDD phenotype.
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