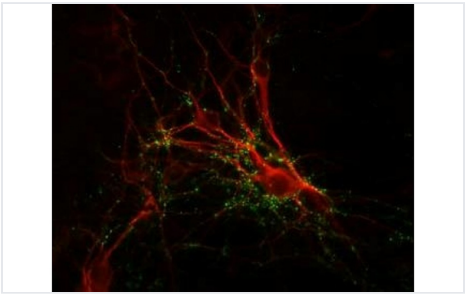
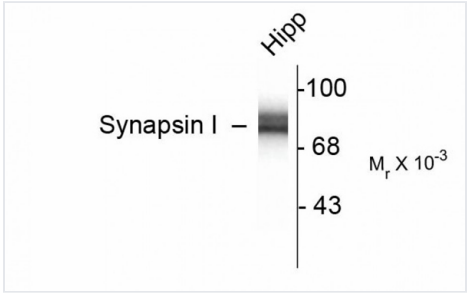
SYN1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SYN1, Polyclonal Antibody
Full Product Name	SYN1 Antibody
Product Gene Name	anti-SYN1 antibody
Product Synonym Names	Rabbit Polyclonal SYN1 Antibody; Polyclonal SYN1 antibody; Anti-SYN1 antibody; SYN 1 antibody; SYN-1 antibody; SYN1; Synapsin antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	Lyophilized Form
Purity/Purification	Affinity Chromatography
OMIM	300491
3D Structure	ModBase 3D Structure for P17600
Product Categories/Family for anti-SYN1 antibody	Neuroscience
Applications Tested/Suitable for anti-SYN1 antibody	Western Blot (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunohistochemistry (IHC)
Application Notes for anti-SYN1 antibody	WB: 1:1000 IHC: 1:1000 IF: 1:1000 IP: 3 ug per 200 ug
Related Product Information for anti-SYN1 antibody	The synapsins are a family of proteins that have long been implicated in the regulation of neurotransmitter release at synapses. Specifically, they are thought to be involved in regulating the number of synaptic vesicles available for release via exocytosis at any one time. Synapsins are present in invertebrates and vertebrates and are somewhat homologous across evaluated vertebrates.
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	MBS5313143 is an antibody targeting SYN1. Also known as SYN1 Antibody. Host: Rabbit.



Immunofluorescence (IF) of anti-SYN1 antibody
Immunofluorescent staining of cultured rat caudate neurons showing punctate distributionof synapsin in green and MAP in red



Western Blot (WB) of anti-SYN1 antibody
Western blot of 10 ug of rat hippocampal (Hipp) lysate showing specific immunolabeling of ~78k synapsin I doublet protein

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
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
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	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.

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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-antibody/syn1/5313143