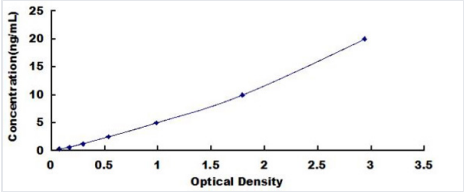
Synapsin 1 (SYN1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Synapsin I (SYN1), ELISA Kit
Full Product Name	Human Synapsin I (SYN1) ELISA Kit
Product Gene Name	SYN1 elisa kit
Product Synonym Names	SYN1a; SYN1b; SYNI; Brain protein 4.1
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates, Cell Lysates, Cell Culture Supernates or Other Biological Fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.148ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	70,033 Da
OMIM	300491
3D Structure	ModBase 3D Structure for P17600
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for SYN1 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to SYN1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to SYN1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain SYN1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of SYN1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of SYN1 elisa kit 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	MBS4503715 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Synapsin I (SYN1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing SYN1. The ELISA analytical biochemical technique of the MBS4503715 kit is based on SYN1 antibody-SYN1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect SYN1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, SYN1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of SYN1 elisa kit

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.** Authors identified the c.236 C > G/p.S79W mutation in SYN1 as causative for the non-syndromic ID of the MRX50 family. Accordingly, the in vitro characterization of S79W SynI clearly indicates that the mutation does not interfere with neurodevelopmental aspects, but perturbs spontaneous SV exocytosis, SV clustering and SV lateral mobility along axons.
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