Synaptophysin (SYP) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Synaptophysin (SYP), ELISA Kit
Full Product Name	Rat Synaptophysin (SYP) ELISA Kit
Product Gene Name	SYP elisa kit
Product Synonym Names	Major synaptic vesicle protein p38
Species Reactivity	Rat
Assay Type	Double-antibody Sandwich
Specificity	This assay has high sensitivity and excellent specificity for detection of Synaptophysin (SYP). No significant cross-reactivity or interference between Synaptophysin (SYP) and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Molecular Weight	20,757 Da
OMIM	X06389 mRNA
3D Structure	ModBase 3D Structure for P08247
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Synaptophysin (SYP) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Synaptophysin (SYP) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
ISO Certification	Manufactured in an ISO 9001:2008 and ISO 13485:2003 Certified Laboratory.
Related Product Information for SYP elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Synaptophysin (SYP). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Synaptophysin (SYP). 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 Synaptophysin (SYP), 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 Synaptophysin (SYP) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of SYP 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 SYP purchase	MBS2701788 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Synaptophysin (SYP) 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 SYP. The ELISA analytical biochemical technique of the MBS2701788 kit is based on SYP antibody-SYP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect SYP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, SYP. 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(%).

ADDITIONAL DETAILS

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

NCBI GI #	27764867
NCBI GeneID	6855
NCBI Accession #	NP_003170.1
UniProt Primary Accession #	P08247
UniProt Secondary Accession #	Q6P2F7; B2R7L6; B7Z359
UniProt Related Accession #	P08247
GenBank Nucleotide #	NM_003179.2
NCBI Official Full Name	synaptophysin
NCBI Official Synonym Full Names	synaptophysin
NCBI Official Symbol	SYP
NCBI Official Synonym Symbols	MRX96; MRXSYP
UniProt Protein Name	Synaptophysin
UniProt Synonym Protein Names	Major synaptic vesicle protein p38
Protein Family	Synaptophysin
UniProt Gene Name	SYP
NCBI Protein Information	synaptophysin
NCBI Summary for SYP	This gene encodes an integral membrane protein of small synaptic vesicles in brain and endocrine cells. The protein also binds cholesterol and is thought to direct targeting of vesicle-associated membrane protein 2 (synaptobrevin) to intracellular compartments. Mutations in this gene are associated with an X-linked form of cognitive disability. [provided by RefSeq, Jul 2017]
UniProt Comments for SYP	Possibly involved in structural functions as organizing other membrane components or in targeting the vesicles to the plasma membrane. Involved in the regulation of short-term and long-term synaptic plasticity ().
Research Articles on SYP	**1.** Synaptophysin-positive epithelial proliferations suggest breast neoplasms.
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.
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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.

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