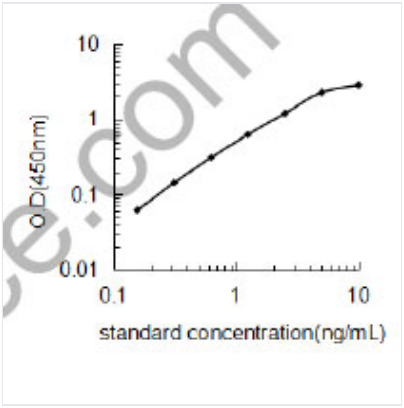
Syntaxin-1a (STX1A) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Syntaxin-1A (Stx1a), ELISA Kit
Full Product Name	Mouse Syntaxin-1A ELISA Kit
Product Gene Name	Stx1a elisa kit
Product Synonym Names	Syntaxin-1A; Neuron-specific antigen HPC-1; Stx1a
Species Reactivity	Mouse
Samples	Serum, plasma, tissue homogenates, cell culture supernates or other biological fluids
Detection Range	0.156-10 ng/mL
Sensitivity	< 0.078 ng/mL
Specificity	Recombinant and natural Mouse Stx1a/ Syntaxin-1A
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Inter-assay Precision	<=8.6%
Intra-assay Precision	<=6.2%
Molecular Weight	33,054 Da
3D Structure	ModBase 3D Structure for O35526
Related Product Information for Stx1a elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to target antigen. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for target antigen and then avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB substrate solution is added to each well. Only those wells that contain target antigen, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm ± 2 nm. The concentration of target antigen in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: This immunoassay kit allows for the in vitro quantitative determination of target antigen concentrations in serum, plasma, tissue homogenates, cell culture supernates or other biological fluids.
Other Notes	Small volumes of Stx1a 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 Stx1a purchase	MBS2881593 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Syntaxin-1A (Stx1a) 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 Stx1a. The ELISA analytical biochemical technique of the MBS2881593 kit is based on Stx1a antibody-Stx1a antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Stx1a antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Stx1a. 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 Stx1a elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Stx1a. It may not necessarily be applicable to this product.

NCBI GI #	15011853
NCBI GeneID	20907
NCBI Accession #	NP_058081.2
UniProt Primary Accession #	O35526
UniProt Related Accession #	O35526
GenBank Nucleotide #	NM_016801.4
NCBI Official Full Name	syntaxin-1A
NCBI Official Synonym Full Names	syntaxin 1A (brain)
NCBI Official Symbol	Stx1a
NCBI Official Synonym Symbols	HPC-1
UniProt Protein Name	Syntaxin-1A
UniProt Synonym Protein Names	Neuron-specific antigen HPC-1
Protein Family	Syntaxin
UniProt Gene Name	Stx1a
UniProt Entry Name	STX1A_MOUSE
NCBI Protein Information	syntaxin-1A

UniProt Comments for Stx1a	STX1A: a type IV membrane protein involved in docking of synaptic vesicles at presynaptic active zones. May play a critical role in neurotransmitter exocytosis. Part of the SNARE core complex containing SNAP25, VAMP2 and STX1A. Three splice variant isoforms have been described. Protein type: Membrane protein, integral; Vesicle Cellular Component: actomyosin; cell junction; cytoplasmic vesicle; endomembrane system; integral to membrane; intracellular organelle; membrane; neuron projection; plasma membrane; protein complex; secretory granule; SNARE complex; synapse; synaptic vesicle; synaptic vesicle membrane; voltage-gated potassium channel complex Molecular Function: ATP-dependent protein binding; calcium channel inhibitor activity; calcium-dependent protein binding; chloride channel inhibitor activity; glycoprotein binding; kinase binding; myosin binding; myosin head/neck binding; protein binding; protein binding, bridging; protein domain specific binding; protein heterodimerization activity; protein N-terminus binding; SNAP receptor activity; SNARE binding Biological Process: calcium ion-dependent exocytosis; exocytosis; intracellular protein transport; neurotransmitter transport; positive regulation of calcium ion-dependent exocytosis; positive regulation of catecholamine secretion; positive regulation of exocytosis; positive regulation of neurotransmitter secretion; regulation of exocytosis; response to gravity; secretion by cell; synaptic vesicle fusion to presynaptic membrane; transport; vesicle docking; vesicle-mediated transport
Research Articles on Stx1a	**1.** syntaxin 1 and vesicle-associated membrane protein 1 are more suitable targets to abolish functional soluble N-ethylmaleimide-sensitive factor attachment protein receptor complexes
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/stx1a-mouse-elisa-kits/syntaxin-1a/2881593