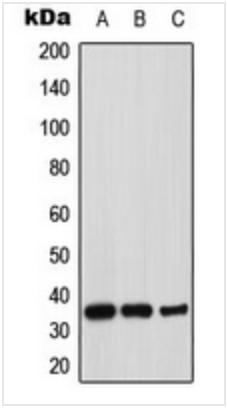
Syntaxin 1a (STX1A) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Syntaxin 1A (STX1A), Polyclonal Antibody
Full Product Name	Rabbit anti-Syntaxin 1A Antibody
Product Gene Name	anti-STX1A antibody
Product Synonym Names	STX1; Syntaxin-1A; Neuron-specific antigen HPC-1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat, Bovine, Monkey
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	33,023 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (73113535..73134017, complement). Location: 7q11.23
OMIM	186590
3D Structure	ModBase 3D Structure for Q16623
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Syntaxin 1A. The exact sequence is proprietary.
Product Categories/Family for anti-STX1A antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-STX1A antibody	Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-STX1A antibody	WB: 1:500-1:1000 IP: 1:10-1:100
Related Product Information for anti-STX1A antibody	MBS4512175 is an antibody targeting STX1A. Also known as Rabbit anti-Syntaxin 1A Antibody. Reactive in Human, Mouse, Rat, Bovine, Monkey. Host: Rabbit.
Other Notes	Small volumes of anti-STX1A 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.



Western Blot (WB) of anti-STX1A antibody
Western blot analysis of Syntaxin 1A expression in MCF7 (A), mouse brain (B), rat brain (C) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STX1A. It may not necessarily be applicable to this product.

NCBI GI #	259906442
NCBI GeneID	6804
NCBI Accession #	NP_001159375.1
UniProt Primary Accession #	Q16623
UniProt Secondary Accession #	O35526; P32851
UniProt Related Accession #	Q16623
GenBank Nucleotide #	NM_001165903.1
NCBI Official Full Name	syntaxin-1A isoform 2
NCBI Official Synonym Full Names	syntaxin 1A (brain)
NCBI Official Symbol	STX1A
NCBI Official Synonym Symbols	STX1; HPC-1; P35-1; SYN1A
UniProt Protein Name	Syntaxin-1A
UniProt Synonym Protein Names	Neuron-specific antigen HPC-1
Protein Family	Syntaxin
UniProt Gene Name	STX1A
UniProt Synonym Gene Names	STX1
UniProt Entry Name	STX1A_HUMAN
NCBI Protein Information	syntaxin-1A; neuron-specific antigen HPC-1
NCBI Summary for STX1A	This gene encodes a member of the syntaxin superfamily. Syntaxins are nervous system-specific proteins implicated in the docking of synaptic vesicles with the presynaptic plasma membrane. Syntaxins possess a single C-terminal transmembrane domain, a SNARE [Soluble NSF (N-ethylmaleimide-sensitive fusion protein)-Attachment protein REceptor] domain (known as H3), and an N-terminal regulatory domain (Habc). Syntaxins bind synaptotagmin in a calcium-dependent fashion and interact with voltage dependent calcium and potassium channels via the C-terminal H3 domain. This gene product is a key molecule in ion channel regulation and synaptic exocytosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

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: Vesicle; Membrane protein, integral Chromosomal Location of Human Ortholog: 7q11.23 Cellular Component: SNARE complex; synaptic vesicle; neuron projection; synaptic vesicle membrane; extracellular region; plasma membrane; integral to membrane; endomembrane system; actomyosin; cytosol; cell junction; secretory granule Molecular Function: protein binding, bridging; SNAP receptor activity; protein domain specific binding; myosin binding; protein N-terminus binding; calcium-dependent protein binding; ATP-dependent protein binding; SNARE binding; protein binding; chloride channel inhibitor activity; protein heterodimerization activity; myosin head/neck binding; calcium channel inhibitor activity; glycoprotein binding; kinase binding Biological Process: response to gravity; neurotransmitter secretion; pathogenesis; positive regulation of neurotransmitter secretion; calcium ion-dependent exocytosis; synaptic vesicle fusion to presynaptic membrane; intracellular protein transport; synaptic transmission; vesicle docking; cellular protein metabolic process; glutamate secretion; energy reserve metabolic process; regulation of insulin secretion; secretion by cell; synaptic vesicle docking during exocytosis; positive regulation of exocytosis
Research Articles on STX1A	**1.** In dementia with Lewy bodies patients there were lower levels of syntaxin in visual cortex compared to controls.
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