

ARG62633 anti-Syntaxin antibody [STX01 (HPC-1)]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [STX01 (HPC-1)] recognizes Syntaxin
Tested Reactivity	Hu, Rat
Tested Application	ICC/IF, IP, WB
Host	Mouse
Clonality	Monoclonal
Clone	STX01 (HPC-1)
Isotype	IgG1
Target Name	Syntaxin
Species	Rat
Immunogen	amino acids 3-225- raised against Syntaxin 1 of rat origin
Conjugation	Un-conjugated
Alternate Names	HPC-1; STX1; Syntaxin-1A; SYN1A; Neuron-specific antigen HPC-1; P35-1

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50
	IP	1:200
	WB	1:100
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	SH-SY5Y cell lysate	

Properties

Form	Liquid
Purification	Purified Antibody
Buffer	1X PBS and 0.1% Sodium azide
Preservative	0.1% Sodium azide
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 116470 Rat GeneID: 6804 Human Swiss-port # P32851 Rat Swiss-port # Q16623 Human
Gene Symbol	Stx1a
Gene Full Name	syntaxin 1A (brain)
Background	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]
Function	Potentially involved in docking of synaptic vesicles at presynaptic active zones. May play a critical role in neurotransmitter exocytosis. May mediate Ca(2+)-regulation of exocytosis acrosomal reaction in sperm. [UniProt]
Research Area	Cancer antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	33 kDa
PTM	Phosphorylated by CK2 (By similarity). Phosphorylation at Ser-188 by DAPK1 significantly decreases its interaction with STXBP1.