

## 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	lgG1
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.

### **Bioinformation**

Database links	<u>GeneID: 116470 Rat</u>
	GenelD: 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
РТМ	Phosphorylated by CK2 (By similarity). Phosphorylation at Ser-188 by DAPK1 significantly decreases its interaction with STXBP1.