

# STX1A Antibody

Rabbit mAb

Catalog # AP92541

## Product Information

<b>Application</b>	WB, FC, IP
<b>Primary Accession</b>	<a href="#">Q16623</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	HPC 1; P35-1; STX1; STX1A; SYN1A; Syntaxin-1A;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	33023

## Additional Information

<b>Dilution</b>	WB 1:1000~1:5000 IP 1:50 FC 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human STX1A
<b>Description</b>	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.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<b>Name</b>	STX1A
<b>Synonyms</b>	STX1
<b>Function</b>	Plays an essential role in hormone and neurotransmitter calcium-dependent exocytosis and endocytosis (PubMed: <a href="#">26635000</a> ). Part of the SNARE (Soluble NSF Attachment Receptor) complex composed of SNAP25, STX1A and VAMP2 which mediates the fusion of synaptic vesicles with the presynaptic plasma membrane. STX1A and SNAP25 are localized on the plasma membrane while VAMP2 resides in synaptic vesicles. The pairing of the three SNAREs from the N-terminal SNARE motifs to the C-terminal anchors leads to the formation of the SNARE complex, which brings membranes into close proximity and results in final fusion. Participates in the calcium-dependent regulation of acrosomal exocytosis in sperm (PubMed: <a href="#">23091057</a> ). Also plays an important role in the exocytosis of hormones such as insulin or glucagon-like peptide 1 (GLP-1) (By similarity).
<b>Cellular Location</b>	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane

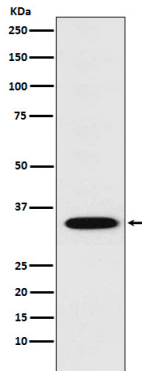
{ECO:0000250|UniProtKB:O35526}; Single-pass type IV membrane protein  
{ECO:0000250|UniProtKB:O35526}. Synapse, synaptosome  
{ECO:0000250|UniProtKB:O35526}. Cell membrane  
{ECO:0000250|UniProtKB:P32851}. Note=Colocalizes with KCNB1 at the cell membrane. {ECO:0000250|UniProtKB:P32851}

## Tissue Location

[Isoform 1]: Highly expressed in embryonic spinal cord and ganglia and in adult cerebellum and cerebral cortex

## Images

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Western blot analysis of STX1A expression in SH-SY5Y cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.