



Rabbit Anti-phospho-Syntaxin 1a (Ser188) antibody

SL10315R

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| Product Name: | phospho-Syntaxin 1a (Ser188) |
| Chinese Name: | 磷酸化突触融合蛋白1抗体 |
| Alias: | Syntaxin 1a (phospho S188); Syntaxin 1a (phospho Ser188); p-Syntaxin 1a (Ser188); HPC 1; Neuron specific antigen HPC1; Neuron-specific antigen HPC-1; OTTHUMP00000174615; OTTHUMP00000174616; OTTHUMP00000174617; OTTHUMP00000174618; P35-1; STX1; STX1A; STX1A_HUMAN; SYN1A; Syntaxin 1A (brain); Syntaxin 1A brain; Syntaxin-1A; Syntaxin-1A. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,Guinea Pig, |
| Applications: | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 33kDa |
| Cellular localization: | The cell membrane |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated Synthesised phosphopeptide derived from human Syntaxin 1a around the phosphorylation site of Ser188:SI(p-S)KQ |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

PubMed:[PubMed](#)

Syntaxin 1a is potentially involved in docking of synaptic vesicles at presynaptic active zones and may play a critical role in neurotransmitter exocytosis. Haploinsufficiency of STX1A may be the cause of certain cardiovascular and musculo skeletal abnormalities observed in Williams-Beuren syndrome (WBS), a rare developmental disorder.

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 across membrane reaction in sperm.

Subunit:

Part of the SNARE core complex containing SNAP25, VAMP2 and STX1A. This complex binds to CPLX1. Binds SYTL4 and STXBP6. Found in a ternary complex with STX1A and SNAP25. Interacts with OTOF and LGI3. Interacts with SLC6A4. Interacts with SYT6 and SYT8; the interaction is Ca(2+)-dependent (By similarity). Found in a complex with VAMP8 and SNAP23. Interacts with VAPA and SYBU.

Subcellular Location:

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass type IV membrane protein. Cell junction, synapse, synaptosome. Isoform 2: Secreted (Probable).

Tissue Specificity:

Isoform 1 is highly expressed in embryonic spinal cord and ganglia and in adult cerebellum and cerebral cortex. Isoform 2 is expressed in heart, liver, fat, skeletal muscle, kidney and brain.

Post-translational modifications:

Phosphorylated by DAPK1.

DISEASE:

Note=STX1A is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region.

Similarity:

Belongs to the syntaxin family.
Contains 1 t-SNARE coiled-coil homology domain.

SWISS:

Q16623

Gene ID:

6804

Product Detail:

Database links:

[Entrez Gene: 6804](#)Human

[Entrez Gene: 20907](#)Mouse

[Entrez Gene: 116470](#)Rat

[Oimim: 186590](#)Human

[SwissProt: P32850](#)Cow

[SwissProt: Q16623](#)Human

[SwissProt: O35526](#)Mouse

[SwissProt: Q5R4L2](#)Orangutan

[SwissProt: P32851](#)Rat

[Unigene: 647024](#)Human

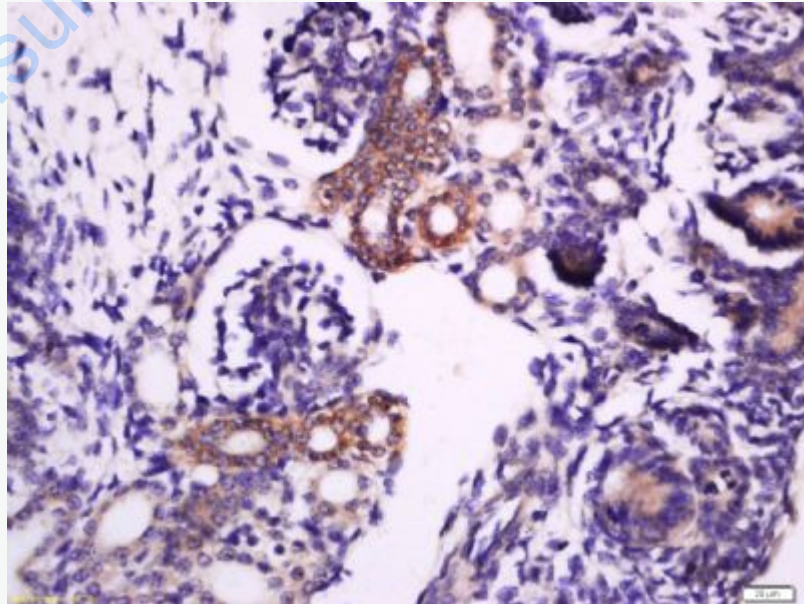
[Unigene: 6225](#)Mouse

[Unigene: 9943](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Tissue/cell: Mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-

embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-Syntaxin 1a Polyclonal Antibody, Unconjugated(SL10315R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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