

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

SL10315R

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.
Product Type	Phosphorylated anti
Research Area	Tumour Cell biology immunology Neurobiology Signal transduction transcriptional regulatory factor Transporter Binding protein
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse (predicted:Human,Rat,Dog,Pig,Cow,Horse,Sheep,GuineaPig) IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	33kDa
Cellular localization	The cell membrane
Form	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
Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Solution****Storage**

Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

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

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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 acrosomal 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.

**Product
Detail****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 chord 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

Database links:

[Entrez Gene: 6804](#) Human

[Entrez Gene: 20907](#) Mouse

[Entrez Gene: 116470](#) Rat

[Omim: 186590](#) Human

[SwissProt: P32850](#) Cow

[SwissProt: Q16623](#) Human

[SwissProt: O35526](#) Mouse

[SwissProt: Q5R4L2](#) Orangutan

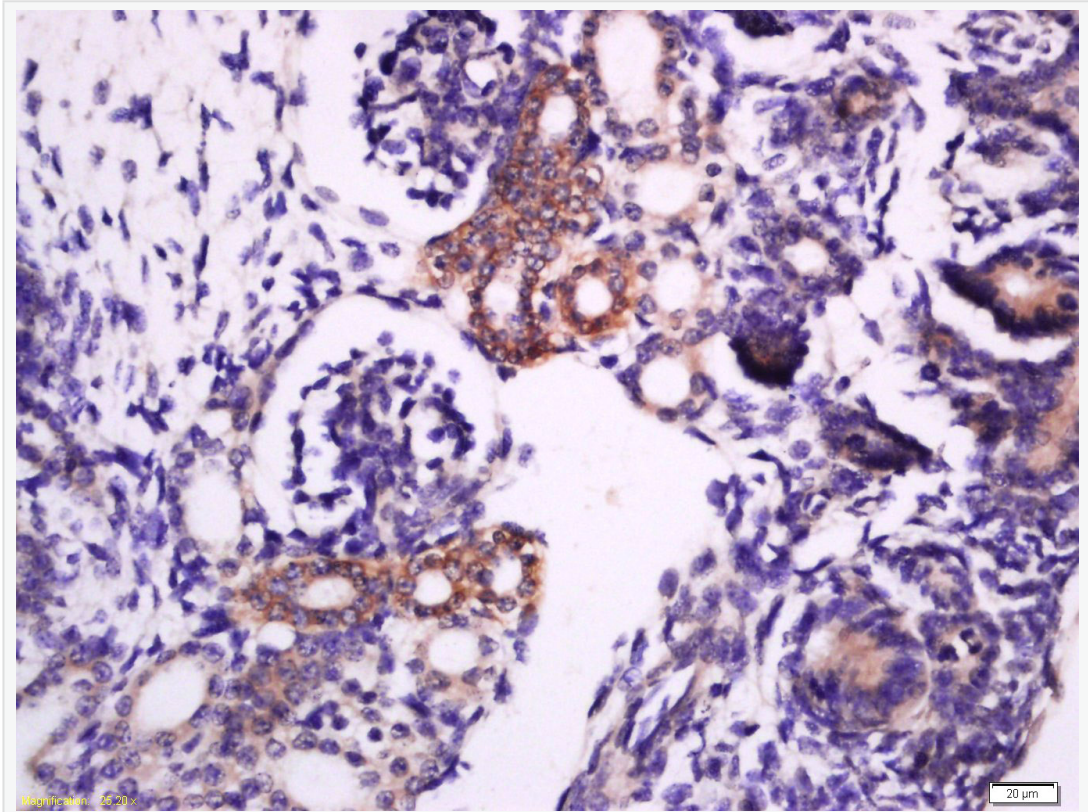
[SwissProt: P32851](#) Rat

[Unigene: 647024](#) Human

[Unigene: 6225](#) Mouse

[Unigene: 9943](#) Rat

**Product
Picture**



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

Antigen retrieval: citrate buffer (1M, 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