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Rabbit Anti-phospho-Syntaxin 1a (Ser188)/AF350 Conjugated antibody

SL10315R-AF350

Product Name	Anti-phospho-Syntaxin 1a(Ser188)/AF350
Chinese Name	AF350 标记的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)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	33kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated Synthesised phosphopeptide derived from human
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Product Detail

background:
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.

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.

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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

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