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[Marker Primary Antibody]

Rabbit Anti-Syntaxin 1a (brain)/FITC Conjugated antibody

Catalog Number: SL1486R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Syntaxin 1A(brain)/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human Syntaxin 1A
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Subcellular Location:	The cell membrane
Background:	background: This gene encodes a bipartite protein with distinct amino- and carboxy-terminal domains. The amino-terminus contains nuclear localization signals and the carboxy-terminus contains numerous consecutive sequences with extensive similarity to proteins in the gelsolin family of actin-binding proteins, which cap, nucleate, and/or sever actin filaments. The gene product is tightly associated with both actin filaments and plasma membranes, suggesting a role as a high-affinity link between the actin cytoskeleton and the membrane. The encoded protein appears to aid in both myosin II assembly during cell spreading and disassembly of focal adhesions. Two transcript variants encoding different isoforms of supervillin have been described. [provided by RefSeq, Jul 2008] **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.

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

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	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. 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. 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. **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. Trafficking and Transport A protein on the presynaptic membrane is considered to be a membrane protein that regulates synaptic release of neurotransmitters. Some scholars believe that: Syntaxin 1 in cells is related to the fusion of vesicles and the plasma membrane.