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Product datasheet for TA812825S

Syntaxin 1a (STX1A) Mouse Monoclonal Antibody [Clone ID: OTI1D8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1D8
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human STX1A (NP_004594) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	syntaxin 1A
Database Link:	NP_004594 Entrez Gene 20907 MouseEntrez Gene 116470 RatEntrez Gene 6804 Human Q16623

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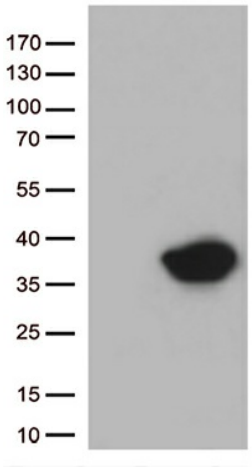
Background: This gene encodes a member of the syntaxin superfamily. Syntaxins are nervous system-specific proteins implicated in the docking of synaptic vesicles with the presynaptic plasma membrane. Syntaxins possess a single C-terminal transmembrane domain, a SNARE [Soluble NSF (N-ethylmaleimide-sensitive fusion protein)-Attachment protein REceptor] domain (known as H3), and an N-terminal regulatory domain (Habc). Syntaxins bind synaptotagmin in a calcium-dependent fashion and interact with voltage dependent calcium and potassium channels via the C-terminal H3 domain. This gene product is a key molecule in ion channel regulation and synaptic exocytosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

Synonyms: HPC-1; P35-1; STX1; SYN1A

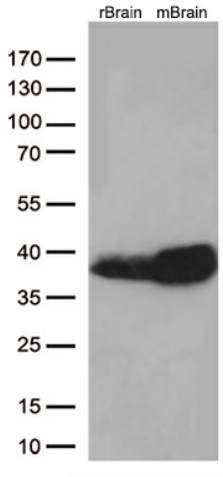
Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY STX1A ([RC209062], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-STX1A (1:500).



Western blot analysis of extracts (35ug) from 2 different tissue lysates by using anti-STX1A monoclonal antibody (1:500).