

## Syntaxin 1 Polyclonal Antibody

<b>Catalog No :</b>	YT5440
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Syntaxin 1
<b>Fields :</b>	>>SNARE interactions in vesicular transport;>>Synaptic vesicle cycle;>>Insulin secretion;>>Huntington disease;>>Pathways of neurodegeneration - multiple diseases;>>Amphetamine addiction
<b>Gene Name :</b>	STX1A
<b>Protein Name :</b>	Syntaxin-1A
<b>Human Gene Id :</b>	6804
<b>Human Swiss Prot No :</b>	Q16623
<b>Mouse Gene Id :</b>	20907
<b>Mouse Swiss Prot No :</b>	O35526
<b>Rat Gene Id :</b>	116470
<b>Rat Swiss Prot No :</b>	P32851
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from the Internal region of human STX1A. AA range:31-80
<b>Specificity :</b>	Syntaxin 1 Polyclonal Antibody detects endogenous levels of Syntaxin 1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC: 1:100-1:300. ELISA: 1:20000.. IF 1:50-200

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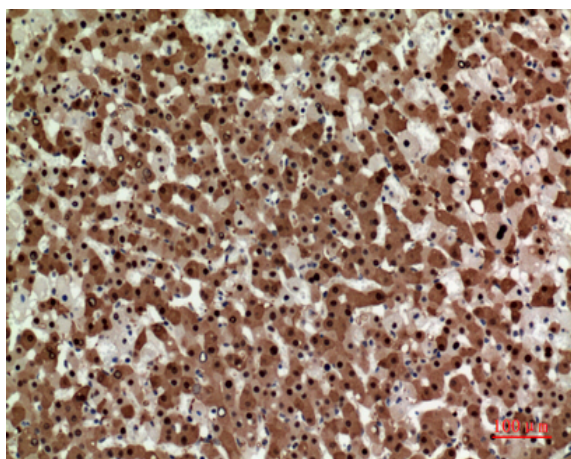
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	30kD
<b>Cell Pathway :</b>	SNARE interactions in vesicular transport;
<b>Background :</b>	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],
<b>Function :</b>	disease:Haploinsufficiency of STX1A may be the cause of certain cardiovascular and musculo-skeletal abnormalities observed in Williams-Beuren syndrome (WBS), a rare developmental disorder. It is a contiguous gene deletion syndrome involving genes from chromosome band 7q11.23.,function:Potentially involved in docking of synaptic vesicles at presynaptic active zones. May play a critical role in neurotransmitter exocytosis.,similarity:Belongs to the syntaxin family.,similarity:Contains 1 t-SNARE coiled-coil homology domain.,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 (By similarity). Found in a complex with VAMP8 and SNAP23. Interacts with VAPA and SYBU.,tissue specificity:Isoform 1 is highly expressed in embryonic spinal cord and ganglia
<b>Subcellular Location :</b>	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane ; Single-pass type IV membrane protein . Cell junction, synapse, synaptosome . Cell membrane . Colocalizes with KCNB1 at the cell membrane. . ; [Isoform 2]: Secreted .
<b>Expression :</b>	[Isoform 1]: Highly expressed in embryonic spinal cord and ganglia and in adult cerebellum and cerebral cortex. ; [Isoform 2]: Expressed in heart, liver, fat, skeletal muscle, kidney and brain.

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## Products Images



Western Blot analysis of K562 cells using Syntaxin 1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100