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Syntaxin 1 Polyclonal Antibody

YP-Ab-00747	
lgG	
Human;Mouse;Rat;Monkey	
WB;IHC;IF;ELISA	
STX1A	
Syntaxin-1A	
The antiserum was produced against synthesized peptide derived from human Syntaxin 1A. AA range:1-50	
Syntaxin 1 Polyclonal Antibody detects endogenous levels of Syntaxin 1 protein.	
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.	
Polyclonal, Rabbit,IgG	
The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.	
Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.	
1 mg/ml	
≥90%	
-20°C/1 year	
STX1A; STX1; Syntaxin-1A; Neuron-specific antigen HPC-1	
35kD	
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 .	
[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.	
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	



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specificity: Isoform 1 is highly expressed in embryonic spinal chord and ganglia

Background matters needing	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], Avoid repeated freezing and thawing!	
attention		
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.	

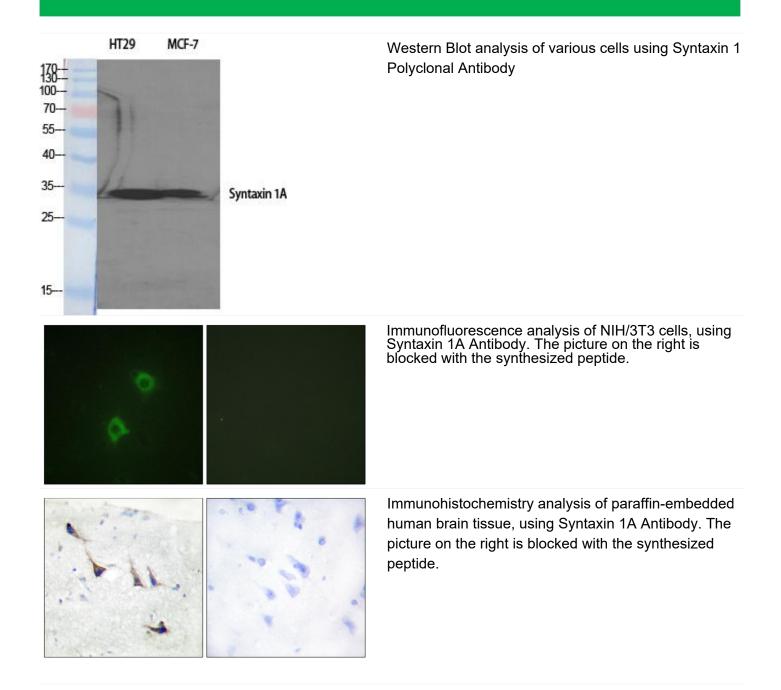


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cos co	117	Western blot analysis of lysates from COS7 cells, using Syntaxin 1A Antibody. The lane on the right is blocked with the synthesized peptide.
	85	
Syntaxin 1A	48	
	34	
	26	
	19 (kD)	