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# Syntaxin 1 Polyclonal Antibody

Catalog No	YP-Ab-00747
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB;IHC;IF;ELISA
Gene Name	STX1A
Protein Name	Syntaxin-1A
Immunogen	The antiserum was produced against synthesized peptide derived from human Syntaxin 1A. AA range:1-50
Specificity	Syntaxin 1 Polyclonal Antibody detects endogenous levels of Syntaxin 1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	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.
Concentration	1 mg/ml
Purity	≥90%
Purity Storage Stability	≥90% -20°C/1 year
Storage Stability	-20°C/1 year
Storage Stability Synonyms	-20°C/1 year STX1A; STX1; Syntaxin-1A; Neuron-specific antigen HPC-1
Storage Stability Synonyms Observed Band	-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



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

## 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 transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009],

#### matters needing attention

Avoid repeated freezing and thawing!

#### **Usage suggestions**

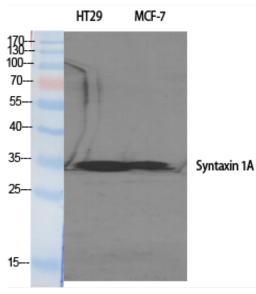
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



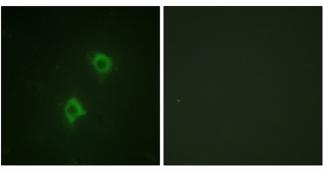




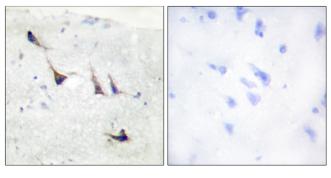
# **Products Images**



Western Blot analysis of various cells using Syntaxin 1 Polyclonal Antibody



Immunofluorescence analysis of NIH/3T3 cells, using Syntaxin 1A Antibody. The picture on the right is blocked with the synthesized peptide.



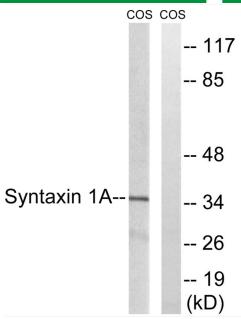
Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Syntaxin 1A Antibody. The picture on the right is blocked with the synthesized peptide.



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Western blot analysis of lysates from COS7 cells, using Syntaxin 1A Antibody. The lane on the right is blocked with the synthesized peptide.