

Product datasheet for **AP20201PU-N**

Synaptotagmin 1 (SYT1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 280-330 of Human Synaptotagmin.
Specificity:	This antibody antibody detects endogenous levels of Synaptotagmin protein.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 containing 0.05% Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 64 kDa
Gene Name:	synaptotagmin 1
Database Link:	Entrez Gene 20979 Mouse Entrez Gene 25716 Rat Entrez Gene 6857 Human P21579



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Background:

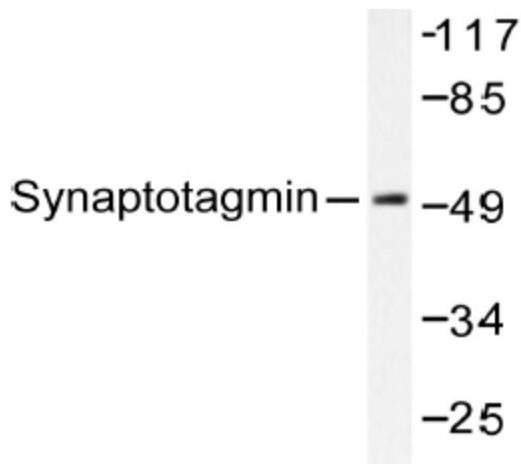
Syntaxins, six of which have been identified, were originally thought to be docking proteins, but have more recently been categorized as anchoring proteins that anchor themselves to the cytoplasmic surfaces of cellular membranes. Syntaxins have been shown to bind to various proteins involved in exocytosis, including VAMPs (vesicle-associated membrane proteins), NSF (N-ethylmaleimide-sensitive factor), SNAP 25 (synaptosomal-associated protein of 25kDa), SNAPs (soluble NSF attachment proteins) and synaptotagmin. VAMPs, also designated synaptobrevins, including VAMP-1 and VAMP-2, and synaptotagmin, a protein that may function as an inhibitor of exocytosis, are vesicular proteins. SNAPs, including α - and γ -SNAP, are cytoplasmic proteins that bind to a membrane receptor complex composed of VAMP, SNAP 25 and syntaxin. SNAPs mediate the membrane binding of NSF, which is essential for membrane fusion reactions. An additional protein designated synaptophysin may regulate exo-cytosis by competing with SNAP 25 and syntaxins for VAMP binding.

Synonyms:

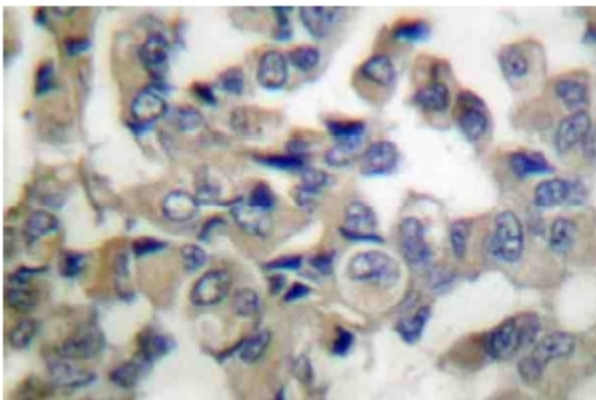
SYT1, SVP65, SYT, Synaptotagmin1, Synaptotagmin I, SytI, p65

Protein Families:

Secreted Protein, Transmembrane

Product images:


Western blot (WB) analysis of Synaptotagmin antibody (Cat.-No.: AP20201PU-N) in extracts from 293 cells Forskolin 40nM 30' or 293 cells Sorbitol 0.4M 30'.



Immunohistochemistry Analysis: AP20201PU-N Synaptotagmin antibody staining of Paraffin-Embedded Human breast carcinoma tissue.