

Product datasheet for TA326884

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Synaptotagmin 1 (SYT1) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ICC/IF, WB

Recommended Dilution: WB 1:500 - 1:2000;IF 1:50- 1:200

Reactivity: Human, Mouse, Rat

Rabbit Host: Isotype: lgG

Polyclonal Clonality:

Immunogen: Recombinant protein of human SYT1

Formulation: Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50%

glycerol, pH7.3

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

Store at -20°C as received. Storage:

Stability: Stable for 12 months from date of receipt.

Gene Name: synaptotagmin 1

Database Link: NP 005630

Entrez Gene 20979 MouseEntrez Gene 25716 RatEntrez Gene 6857 Human

P21579



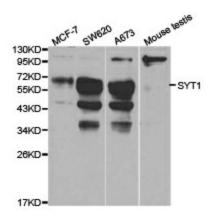
Background:

Synaptotagmin 1 (SYT1) is an integral membrane protein found in synaptic vesicles thought to play a role in vesicle trafficking and exocytosis. Individual SYT1 proteins are composed of an amino-terminal transmembrane region, a central linker region and a pair of carboxy-terminal C2 domains responsible for binding Ca2+. The C2 domains appear to be functionally distinct, with the C2A domain responsible for regulating synaptic vesicle fusion in a calcium-dependent manner during exocytosis while the C2B domain allows for interaction between adjacent SYT1 proteins. Because synaptotagmin 1 binds calcium and is found in synaptic vesicles, this integral membrane protein is thought act as a calcium sensor in fast synaptic vesicle exocytosis. Evidence suggests possible roles in vesicle-mediated endocytosis and glucose-induced insulin secretion as well. SYT1 binds several different SNARE proteins during calcium-mediated vesicle endocytosis and an association between SYT1 and the SNARE protein SNAP-25 is thought to be a key element in vesicle-mediated exocytosis.

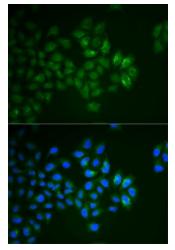
Synonyms: P65; SVP65; SYT

Protein Families: Secreted Protein, Transmembrane

Product images:



Western blot analysis of various cell lines, using SYT1 antibody.



Immunofluorescence analysis of HeLa cell using SYT1 antibody. Blue: DAPI for nuclear staining.