

SYT1 / Synaptotagmin Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS14242**Specification**

SYT1 / Synaptotagmin Antibody (Internal) - Product Information

Application	WB, IHC
Primary Accession	P21579
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Hamster, Monkey, Pig, Chicken, Horse, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	48kDa KDa

SYT1 / Synaptotagmin Antibody (Internal) - Additional Information**Gene ID** 6857**Other Names**

Synaptotagmin-1, Synaptotagmin I, SytI, p65, SYT1, SVP65, SYT

Target/Specificity

Human SYT1 / Synaptotagmin. Reported isoforms NP_005630.1, NP_001129277.1 and NP_001129278.1 represent identical protein.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

SYT1 / Synaptotagmin Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

SYT1 / Synaptotagmin Antibody (Internal) - Protein Information**Name** SYT1 ([HGNC:11509](#))**Synonyms** SVP65, SYT**Function**

Calcium sensor that participates in triggering neurotransmitter release at the synapse (By similarity). May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse (By similarity). It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca(2+)-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca(2+)-independent manner; these are neurexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes (PubMed: <a href="http://www.uniprot.org/citations/23999003"

target="_blank">23999003).

Cellular Location

Cytoplasmic vesicle, secretory vesicle membrane {ECO:0000250|UniProtKB:P21707}; Single-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:P21707}; Single-pass membrane protein {ECO:0000250|UniProtKB:P21707}. Cytoplasmic vesicle, secretory vesicle, chromaffin granule membrane {ECO:0000250|UniProtKB:P21707}; Single-pass membrane protein {ECO:0000250|UniProtKB:P21707}. Cytoplasm {ECO:0000250|UniProtKB:P21707}.

Tissue Location

Expressed in melanocytes (PubMed:23999003).

SYT1 / Synaptotagmin Antibody (Internal) - Protocols

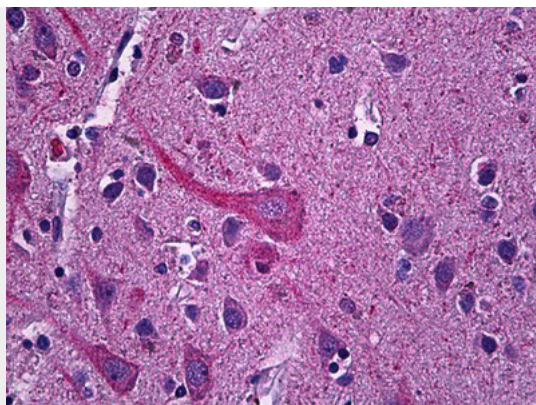
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SYT1 / Synaptotagmin Antibody (Internal) - Images



SYT1 antibody (1 ug/ml) staining of human hippocampus lysate (35 ug protein/ml in RIPA buffer).



Anti-SYT1 / Synaptotagmin antibody IHC of human brain, cortex.

SYT1 / Synaptotagmin Antibody (Internal) - Background

May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca^{2+} -dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca^{2+} -independent manner; these are neurexins, syntaxin and AP2.

SYT1 / Synaptotagmin Antibody (Internal) - References

- Perin M.S.,et al.J. Biol. Chem. 266:615-622(1991).
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Bechtel S.,et al.BMC Genomics 8:399-399(2007).
- Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
- Han C.,et al.J. Immunol. 182:2986-2996(2009).