

Synaptotagmin Blocking Peptide
Catalog # PBV10067b**Specification**

Synaptotagmin Blocking Peptide - Product Information

Primary Accession	P21707
Gene ID	25716
Calculated MW	47399

Synaptotagmin Blocking Peptide - Additional Information**Gene ID** 25716**Application & Usage**

The peptide is used for blocking the antibody activity of synaptotagmin. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

Other Names

Synaptotagmin-1, Synaptotagmin I, SytI, p65, Syt1

Target/Specificity

Synaptotagmin

Formulation

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Synaptotagmin Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

Synaptotagmin Blocking Peptide - Protein Information**Name** Syt1 {ECO:0000312|RGD:3803}**Function**

Calcium sensor that participates in triggering neurotransmitter release at the synapse (PubMed:2333096, PubMed:30107533). 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 neuexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes.

Cellular Location

Cytoplasmic vesicle, secretory vesicle membrane; Single-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, chromaffin granule membrane; Single-pass membrane protein. Cytoplasm

Tissue Location

Expressed in the brain (at protein level) (PubMed:17190793). Predominantly expressed in rostral, phylogenetically younger brain regions, and in some endocrine tissues

Synaptotagmin Blocking Peptide - 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](#)

Synaptotagmin Blocking Peptide - Images