

**SYT1 Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP13709b****Specification**

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**SYT1 Antibody (C-term) Blocking peptide - Product Information**Primary Accession [P21579](#)**SYT1 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 6857**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13709b was selected from the C-term region of SYT1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**SYT1 Antibody (C-term) Blocking peptide - 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 neuroligins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes (PubMed: <http://www.uniprot.org/citations/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 Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**SYT1 Antibody (C-term) Blocking peptide - Images****SYT1 Antibody (C-term) Blocking peptide - Background**

The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. Calcium binding to synaptotagmin-1 participates in triggering neurotransmitter release at the synapse (Fernandez-Chacon et al., 2001 [PubMed11242035]).

**SYT1 Antibody (C-term) Blocking peptide - References**

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Musch, M.W., et al. Am. J. Physiol. Gastrointest. Liver Physiol. 298 (2), G203-G211 (2010) :Kathir, K.M., et al. Biochim. Biophys. Acta 1798(2):297-302(2010) Pattaro, C., et al. BMC Med. Genet. 11, 41 (2010) :Hamdan, F.F., et al. Ann. Neurol. 65(6):748-753(2009)