

SYT4 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP19352a**Specification**

SYT4 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9H2B2](#)**SYT4 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 6860**Other Names**

Synaptotagmin-4, Synaptotagmin IV, SytIV, SYT4, KIAA1342

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.

SYT4 Antibody (N-term) Blocking Peptide - Protein Information**Name** SYT4**Synonyms** KIAA1342**Function**

Synaptotagmin family member which does not bind Ca(2+) (PubMed:23999003) (By similarity). Involved in neuronal dense core vesicles (DCVs) mobility through its interaction with KIF1A. Upon increased neuronal activity, phosphorylation by MAPK8/JNK1 destabilizes the interaction with KIF1A and captures DCVs to synapses (By similarity). Plays a role in dendrite formation by melanocytes (PubMed:23999003).

Cellular Location

Cytoplasmic vesicle, secretory vesicle, neuronal dense core vesicle membrane
{ECO:0000250|UniProtKB:P50232}; Single-pass membrane protein
{ECO:0000250|UniProtKB:P50232}

Tissue Location

Expressed in melanocytes (PubMed:23999003). Expressed in brain. Within brain, expression is highest in hippocampus, with substantial levels also detected in amygdala and thalamus

(PubMed:23999003).

SYT4 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SYT4 Antibody (N-term) Blocking Peptide - Images

SYT4 Antibody (N-term) Blocking Peptide - Background

SYT4 may be involved in Ca^{2+} -dependent exocytosis of secretory vesicles through Ca^{2+} and phospholipid binding to the C2 domain or may serve as Ca^{2+} sensors in the process of vesicular trafficking and exocytosis.

SYT4 Antibody (N-term) Blocking Peptide - References

Need, A.C., et al. Eur. J. Hum. Genet. 17(7):946-957(2009)Sonuga-Barke, E.J., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (8), 1359-1368 (2008) :Ferguson, G.D., et al. J. Biol. Chem. 275(47):36920-36926(2000)Mizutani, A., et al. J. Biol. Chem. 275(13):9823-9831(2000)Thomas, D.M., et al. Mol. Biol. Cell 10(7):2285-2295(1999)