

Syt1 Antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14399**Specification**

Syt1 Antibody - N-terminal region - Product Information

Application	WB
Primary Accession	P21707
Other Accession	NM_001033680 , NP_001028852
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46kDa KDa

Syt1 Antibody - N-terminal region - Additional Information**Gene ID** 25716

Alias Symbol	P65
Other Names	
Synaptotagmin-1, Synaptotagmin I, SytI, p65, Syt1	

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Syt1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Syt1 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Syt1 Antibody - N-terminal region - 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

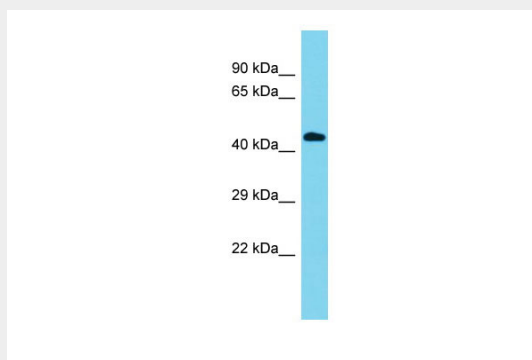
Expressed in the brain (at protein level) (PubMed:17190793). Predominantly expressed in rostral, phylogenetically younger brain regions, and in some endocrine tissues

Syt1 Antibody - N-terminal region - 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 Antibody - N-terminal region - Images



Host: Rabbit
Target Name: Syt1
Sample Tissue: Rat Stomach lysates
Antibody Dilution: 1.0 μ g/ml

Syt1 Antibody - N-terminal region - References

Perin M.S., et al. Nature 345:260-263(1990).
Craxton M.A., et al. BMC Genomics 5:43-43(2004).
Sunitha S.S., et al. Submitted (APR-2006) to the EMBL/GenBank/DDBJ databases.
Lubec G., et al. Submitted (APR-2007) to UniProtKB.
Schivell A.E., et al. J. Biol. Chem. 271:27770-27775(1996).