

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

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**Syt1 Antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">P21707</a>
Other Accession	<a href="#">NM_001033680</a> , <a href="#">NP_001028852</a>
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:&lt;a href="http://www.uniprot.org/citations/2333096" target="\_blank"&gt;2333096&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/30107533" target="\_blank"&gt;30107533&lt;/a&gt;). 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

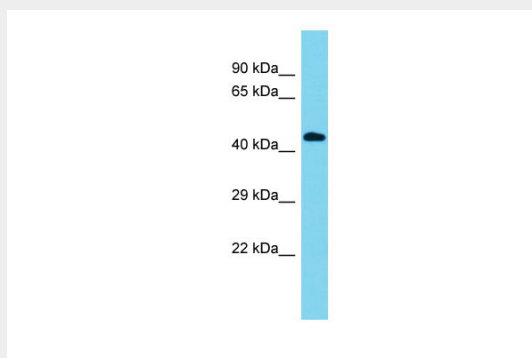
Expressed in the brain (at protein level) (PubMed:17190793). Predominantly expressed in rostral, phylogenetically younger brain regions, and in some endocrine tissues

### 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: 1.0µg/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).