

**Anti-Synaptotagmin 1 Antibody**

**Our Anti-synaptotagmin 1 rabbit polyclonal primary antibody from PhosphoSolutions is produced in-house**  
**Catalog # AN1569**

**Specification**

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**Anti-Synaptotagmin 1 Antibody - Product Information**

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|-------------------|------------------------|
| Primary Accession | <a href="#">P21707</a> |
| Host              | <b>Rabbit</b>          |
| Clonality         | <b>Polyclonal</b>      |
| Isotype           | <b>IgG</b>             |
| Calculated MW     | <b>47399</b>           |

**Anti-Synaptotagmin 1 Antibody - Additional Information**

Gene ID **25716**

**Other Names**

DKFZp781D2042 antibody, FLJ42519 antibody, P65 antibody, SVP65 antibody, synaptotagmin 1 antibody, Synaptotagmin I antibody, SYT antibody, SYT1 antibody, SytI antibody

**Target/Specificity**

Synaptotagmin 1 is a synaptic vesicle membrane glycoprotein that is widely expressed throughout the CNS and is generally thought to act as the Ca<sup>2+</sup> sensor in the regulation of exocytosis and neurotransmitter release (Littleton and Bellen 1995). Recent studies indicate that synaptotagmin's Ca<sup>2+</sup> mediated binding of SNAP25 is essential for the Ca<sup>2+</sup> dependent triggering of membrane fusion (Zhang et al., 2002). It has recently been demonstrated that discrete residues within the c(2)b binding domain of synaptotagmin 1 independently specify endocytic rate and synaptic vesicle size (Poskanzer et al., 2006).

**Format**

Antigen Affinity Purified from Pooled Serum

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Anti-Synaptotagmin 1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

Blue Ice

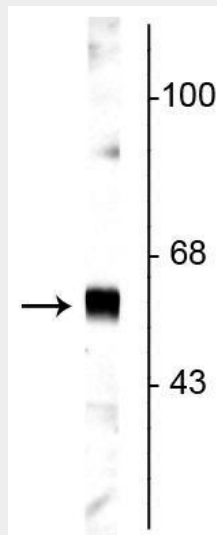
**Anti-Synaptotagmin 1 Antibody - Protocols**

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](#)

### Anti-Synaptotagmin 1 Antibody - Images



Western blot of rat cortical lysate showing specific labeling of the ~65 kDa synaptotagmin protein.

### Anti-Synaptotagmin 1 Antibody - Background

Synaptotagmin 1 is a synaptic vesicle membrane glycoprotein that is widely expressed throughout the CNS and is generally thought to act as the  $\text{Ca}^{2+}$  sensor in the regulation of exocytosis and neurotransmitter release (Littleton and Bellen 1995). Recent studies indicate that synaptotagmin's  $\text{Ca}^{2+}$  mediated binding of SNAP25 is essential for the  $\text{Ca}^{2+}$  dependent triggering of membrane fusion (Zhang et al., 2002). It has recently been demonstrated that discrete residues within the c(2)b binding domain of synaptotagmin 1 independently specify endocytic rate and synaptic vesicle size (Poskanzer et al., 2006).