

## Anti-Synaptotagmin (Thr202) Antibody

Our Anti-Synaptotagmin (Thr202) rabbit polyclonal phosphospecific primary antibody from PhosphoSolut  
Catalog # AN1570

### Specification

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#### Anti-Synaptotagmin (Thr202) Antibody - Product Information

Application	WB
Primary Accession	<a href="#">P21707</a>
Reactivity	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	47399

#### Anti-Synaptotagmin (Thr202) 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 is widely regarded as the primary calcium sensor for synaptic vesicle exocytosis (Fernandez-Chacon et al., 2001; Wang et al., 2003). Moreover, recent studies indicate that the protein also plays a key role in endocytosis (Poskanzer et al., 2003). Synaptotagmin can be phosphorylated by multiple protein kinases and this may play a key role in modulation of synaptotagmin's ability to influence both the exocytotic and endocytotic components of synaptic transmission (Hilfiker et al., 1999; Lee et al., 2004).

##### 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 (Thr202) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

##### Shipping

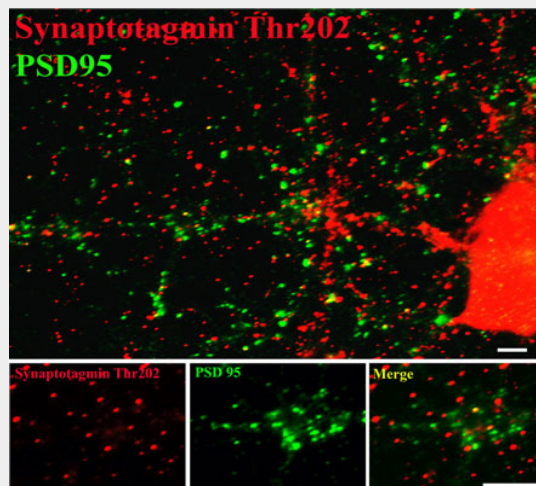
Blue Ice

#### Anti-Synaptotagmin (Thr202) Antibody - Protocols

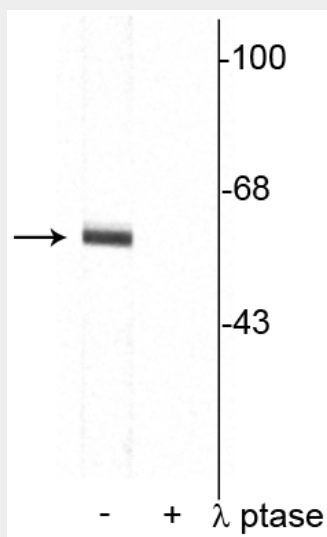
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-Synaptotagmin (Thr202) Antibody - Images



Immunostaining of 14 DIV rat cortical neurons labeling synaptotagmin when phosphorylated at Thr202 (cat. p1570-202, 1:400, red) and PSD95 (green). The cortical neurons were fixed with methanol at -20C for 10 minutes. Photo courtesy of Gang Liu.



Western blot of rat cortical lysate showing specific immunolabeling of the ~62 kDa synaptotagmin phosphorylated at Thr202 in the first lane (-). Phosphospecificity is shown in the second lane (+) where the immunolabeling is completely eliminated by blot treatment with lambda phosphatase ( $\lambda$ -Ptase, 1200 units for 30 minutes).

### Anti-Synaptotagmin (Thr202) Antibody - Background

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(Fernandez-Chacon et al., 2001; Wang et al., 2003). Moreover, recent studies indicate that the protein also plays a key role in endocytosis (Poskanzer et al., 2003). Synaptotagmin can be phosphorylated by multiple protein kinases and this may play a key role in modulation of synaptotagmin's ability to influence both the exocytotic and endocytotic components of synaptic transmission (Hilfiker et al., 1999; Lee et al., 2004).