10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Synaptotagmin (Ser309) Antibody

Our Anti-Synaptotagmin (Ser309) rabbit polyclonal phosphospecific primary antibody from PhosphoSolut

Catalog # AN1571

Specification

Anti-Synaptotagmin (Ser309) Antibody - Product Information

Application	**WB**
Primary Accession	P21707
Reactivity	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**47399**

Anti-Synaptotagmin (Ser309) 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).

Dilution
WB~~1:1000

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 (Ser309) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

Anti-Synaptotagmin (Ser309) Antibody - Protocols

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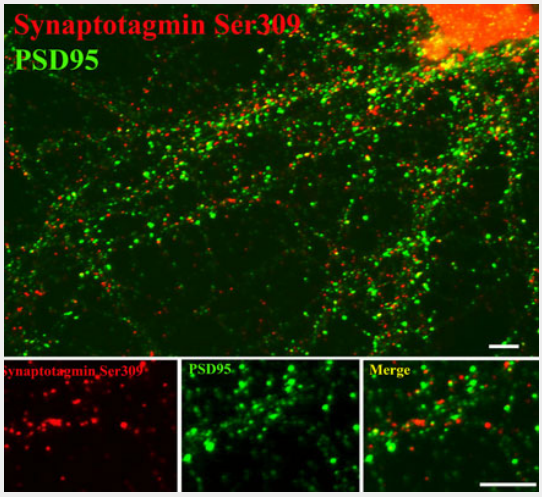
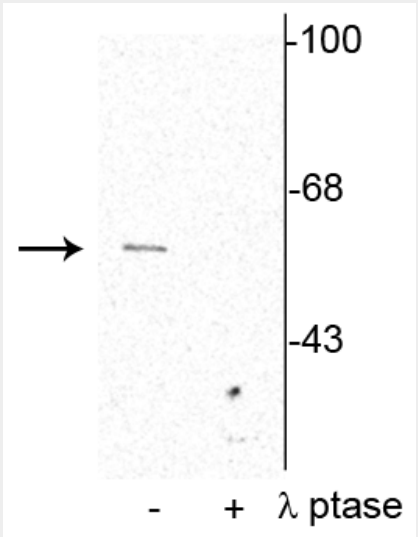
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Synaptotagmin (Ser309) Antibody - Images



Immunostaining of 14 DIV rat cortical neurons showing synaptotagmin when phosphorylated at Ser309 in red and PSD95 in green. 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 (λ-Ptase, 1200 units for 30 minutes).

Anti-Synaptotagmin (Ser309) Antibody - Background

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).