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

Anti-Synapsin I (100 ul) Antibody

Our Anti-Synapsin I rabbit polyclonal primary antibody from PhosphoSolutions is produced in-house. I

Catalog # AN1559

Specification

Anti-Synapsin I (100 ul) Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P17599
Reactivity	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**74518**

Anti-Synapsin I (100 ul) Antibody - Additional Information

Gene ID	**281510**

Other Names
Brain protein 4.1 antibody, SYN 1 antibody, SYN 1a antibody, SYN 1b antibody, SYN I antibody, SYN1 antibody, SYN1_HUMAN antibody, SYN1a antibody, SYN1b antibody, Synapsin 1 antibody, Synapsin I antibody, Synapsin-1 antibody, Synapsin1 antibody, SynapsinI antibody, SYNI antibody

Target/Specificity
Synapsin I plays a key role in synaptic plasticity in brain (Feng et al., 2002; Nayak et al., 1996). This effect is due in large part to the ability of the synapsins to regulate the availability of synaptic vesicles for release. In addition to its role in plasticity, the expression of synapsin I is a precise indicator of synapse formation (Moore and Bernstein, 1989; Stone et al., 1994). Thus, synapsin I immunocytochemistry provides a valuable tool for the study of synaptogenesis. The role of synapsin in synaptic plasticity and in synaptogenesis is regulated by phosphorylation (Jovanovic et al., 2001; Kao et al., 2002).

Dilution
WB~~1:1000
IHC~~1:100~500

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-Synapsin I (100 ul) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

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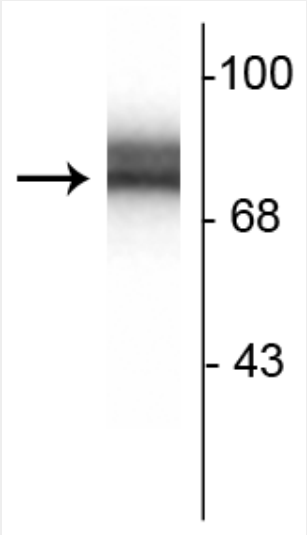
Anti-Synapsin I (100 ul) Antibody - Protocols

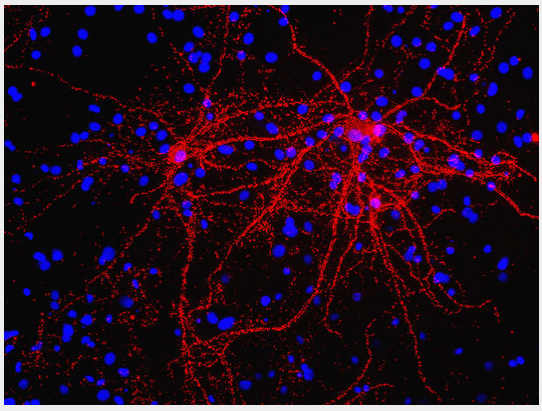
Provided below are standard protocols that you may find useful for product applications.

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

Anti-Synapsin I (100 ul) Antibody - Images



Western blot of 10 ug of rat hippocampal lysate showing specific immunolabeling of the ~78 kDa synapsin I doublet protein.



Immunostaining of 40DIV cultured rat cortical neurons showing punctate labeling of synapsin (cat. 1926-SYNP, 1:1000, red). The blue is staining nuclear DNA. Cells and photo courtesy of QBMCellScience.

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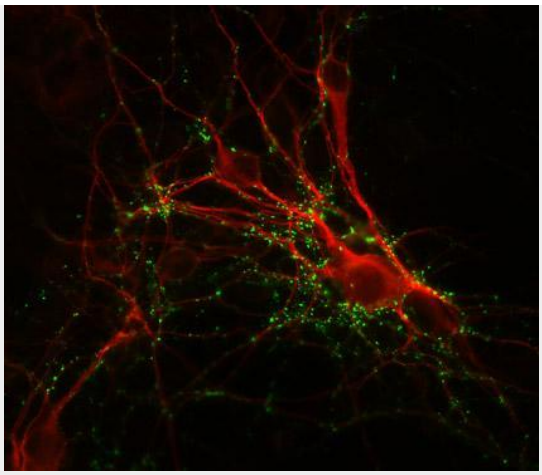

Immunostaining of cultured mouse caudate neurons showing punctate distribution of synapsin (cat. 1926-SYNP, 1:1000, green) and MAP (red). Cells and photo courtesy of QBMCellScience.

Anti-Synapsin I (100 ul) Antibody - Background

Synapsin I plays a key role in synaptic plasticity in brain (Feng et al., 2002; Nayak et al., 1996). This effect is due in large part to the ability of the synapsins to regulate the availability of synaptic vesicles for release. In addition to its role in plasticity, the expression of synapsin I is a precise indicator of synapse formation (Moore and Bernstein, 1989; Stone et al., 1994). Thus, synapsin I immunocytochemistry provides a valuable tool for the study of synaptogenesis. The role of synapsin in synaptic plasticity and in synaptogenesis is regulated by phosphorylation (Jovanovic et al., 2001; Kao et al., 2002).