

**Anti-Synapsin I Antibody**

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

Catalog # AN1560

**Specification**

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**Anti-Synapsin I Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P17599</a>
Reactivity	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	74518

**Anti-Synapsin I 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, SYN1 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).

**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 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

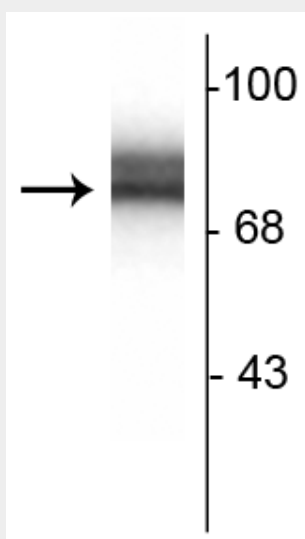
Blue Ice

**Anti-Synapsin I Antibody - Protocols**

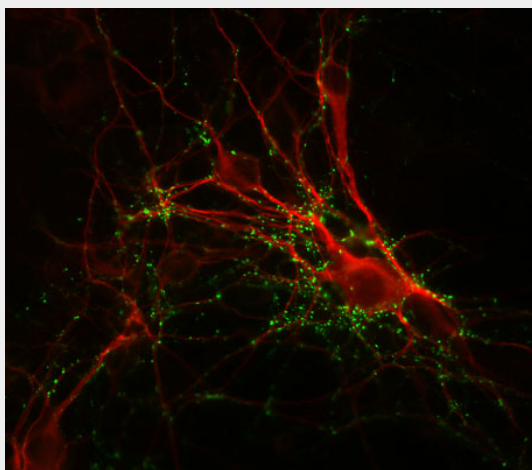
Provided below are standard protocols that you may find useful for product applications.

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

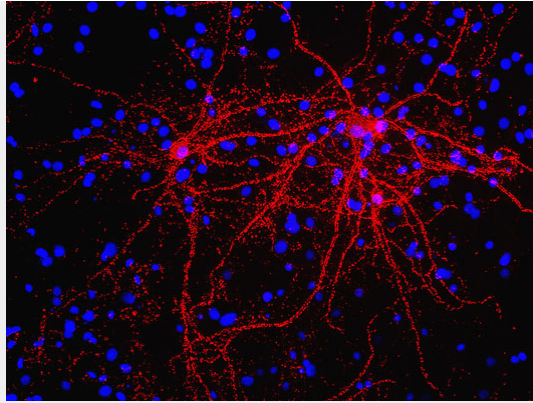
#### Anti-Synapsin I Antibody - Images



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



Immunostaining of cultured mouse caudate neurons showing punctate distribution of synapsin (cat. 1925-SYNP, 1:1000, green) and MAP (red). Cells and photo courtesy of QBMCellScience.



Immunostaining of 40DIV cultured rat cortical neurons showing punctate distribution of synapsin (cat. 1925-SYNP, 1:1000, red). The blue is staining nuclear DNA. Cells and photo courtesy of QBMCellScience.

### **Anti-Synapsin I 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).