

Anti-Synapsin I Antibody

Our Anti-Synapsin I rabbit polyclonal primary antibody from PhosphoSolutions is produced in-house. I Catalog # AN1560

Specification

Anti-Synapsin I Antibody - Product Information

Application WB, IHC
Primary Accession P17599
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, SYN1a antibody, SYN1a antibody, SYN1b antibody, Synapsin 1 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 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

Blue Ice

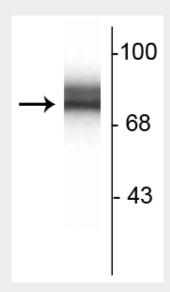


Anti-Synapsin I Antibody - Protocols

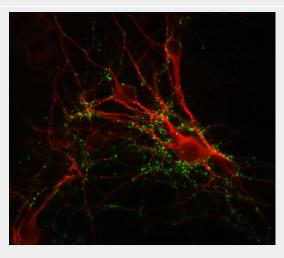
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-Synapsin I Antibody - Images

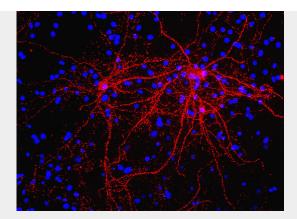


Western blot of 10 μ of rat hippocampal lysate showing specific immunolabeling of the ~78 kDa synapsin I doublet protein.



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).