

# Anti-Phospho-Synapsin I (S9) Rabbit Monoclonal Antibody

**Catalog # ABO13097** 

## **Specification**

## Anti-Phospho-Synapsin I (S9) Rabbit Monoclonal Antibody - Product Information

Application WB, IHC
Primary Accession P17600
Host Rabbit Isotype Rabbit IgG

Reactivity Rat, Human, Mouse

Clonality Monoclonal Format Liquid

**Description** 

Anti-Phospho-Synapsin I (S9) Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.

## Anti-Phospho-Synapsin I (S9) Rabbit Monoclonal Antibody - Additional Information

**Gene ID** 6853

**Other Names** 

Synapsin-1, Brain protein 4.1, Synapsin I, SYN1

Calculated MW 74097 MW KDa

**Application Details** 

WB 1:500-1:2000<br>IHC 1:50-1:200

**Subcellular Localization** 

Cell junction, synapse. Golgi apparatus.

**Protein Name** 

Synapsin-1

**Contents** 

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen** 

A synthesized peptide derived from human Phospho-Synapsin I (S9)

**Purification** 

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.



## Anti-Phospho-Synapsin I (S9) Rabbit Monoclonal Antibody - Protein Information

#### Name SYN1

### **Function**

Neuronal phosphoprotein that coats synaptic vesicles, and binds to the cytoskeleton. Acts as a regulator of synaptic vesicles trafficking, involved in the control of neurotransmitter release at the pre-synaptic terminal (PubMed:<a href="http://www.uniprot.org/citations/21441247" target="\_blank">21441247</a>, PubMed:<a href="http://www.uniprot.org/citations/23406870" target="\_blank">23406870</a>). Also involved in the regulation of axon outgrowth and synaptogenesis (By similarity). The complex formed with NOS1 and CAPON proteins is necessary for specific nitric-oxid functions at a presynaptic level (By similarity).

### **Cellular Location**

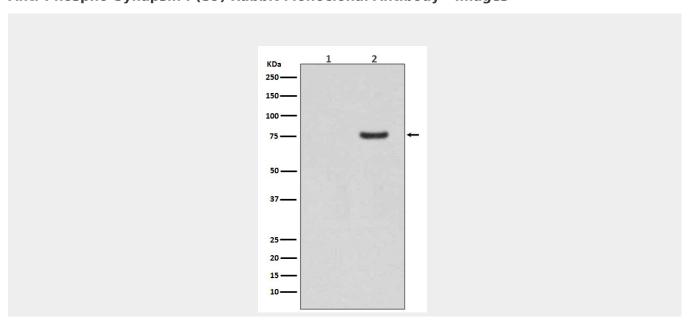
Synapse {ECO:0000250|UniProtKB:O88935}. Golgi apparatus {ECO:0000250|UniProtKB:O88935}. Presynapse. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle {ECO:0000250|UniProtKB:P09951}. Note=Dissociates from synaptic vesicles and redistributes into the axon during action potential firing, in a step that precedes fusion of vesicles with the plasma membrane. Reclusters to presynapses after the cessation of synaptic activity. {ECO:0000250|UniProtKB:P09951}

### Anti-Phospho-Synapsin I (S9) Rabbit Monoclonal 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-Phospho-Synapsin I (S9) Rabbit Monoclonal Antibody - Images







Western blot analysis of Phospho-Synapsin I (S9) expression in (1) Human brain lysate; (2) Human brain lysate treated with AP.