

## Synapsin II Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58071

#### **Specification**

## Synapsin II Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, E

Primary Accession Q92777

Reactivity
Host
Clonality
Calculated MW
Physical State

Rat, Dog, Bovine
Rabbit
Polyclonal
63 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human Synapsin II

Epitope Specificity 251-350/582

Isotype Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cell junction, synapse.

SIMILARITY Belongs to the synapsin family.
SUBUNIT Interacts with CAPON.

Post-translational modifications Phosphorylation at Ser-10 dissociates

synapsins from synapticvesicles.

Important Note This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

## **Background Descriptions**

This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. This member of the synapsin family encodes a neuron-specific phosphoprotein that selectively binds to small synaptic vesicles in the presynaptic nerve terminal. The TIMP4 gene is located within an intron of this gene and is transcribed in the opposite direction. Mutations in this gene may be associated with abnormal presynaptic function and schizophrenia. Alternative splicing of this gene results in two transcripts. [provided by RefSeq, Jul 2008]

## **Synapsin II Polyclonal Antibody - Additional Information**

**Gene ID 6854** 

Other Names Synapsin-2, Synapsin II, SYN2

**Target/Specificity** 



Central and peripheral nervous systems.

#### **Dilution**

<span class ="dilution\_IHC-P">IHC-P~~N/A</span><br \> <span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \> <span class
="dilution\_IF">IF~~1:50~200</span><br \> <span class ="dilution\_E">E~~N/A</span>

### **Storage**

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

## **Synapsin II Polyclonal Antibody - Protein Information**

#### Name SYN2

#### **Function**

Neuronal phosphoprotein that coats synaptic vesicles, binds to the cytoskeleton, and is believed to function in the regulation of neurotransmitter release. May play a role in noradrenaline secretion by sympathetic neurons (By similarity).

# **Cellular Location**

Synapse.

#### **Tissue Location**

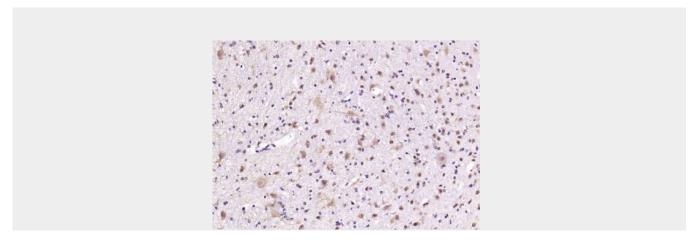
Central and peripheral nervous systems.

### **Synapsin II Polyclonal 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

## **Synapsin II Polyclonal Antibody - Images**







Tel: 858.875.1900 Fax: 858.875.1999

Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Synapsin II) Polyclonal Antibody, Unconjugated (bs-3502R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.