

Synaptophysin Antibody Rabbit mAb Catalog # AP90291

## Specification

# Synaptophysin Antibody - Product Information

Application	WB, IHC, ICC
Primary Accession	<u>P08247</u>
Reactivity	Rat
Clonality	Monoclonal
Other Names	
Major synaptic vesicle protein p	38; MRXSYP; Synaptophysin; SYP; SYPH
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	33845 Da

## **Synaptophysin Antibody - Additional Information**

Dilution	WB~~1:1000 IHC~~1:100~500 ICC~~N/A
Purification Immunogen	Affinity-chromatography A synthesized peptide derived from human Synaptophysin
Description	SYP Possibly involved in structural functions as organizing other membrane components or in targeting the vesicles to the plasma membrane. Involved in the regulation of short-term and long-term synaptic plasticity. Belongs to the synaptophysin/synaptobrevin family. Homohexamer or homotetramer. Note: This description may include information from UniProtKB.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### Synaptophysin Antibody - Protein Information

Name SYP

#### Function

Possibly involved in structural functions as organizing other membrane components or in targeting the vesicles to the plasma membrane. Involved in the regulation of short-term and long-term synaptic plasticity (By similarity).



## **Cellular Location**

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Multi-pass membrane protein. Synapse, synaptosome

### **Tissue Location**

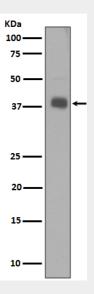
Expressed in the brain, with expression in the hippocampus, the neuropil in the dentate gyrus, where expression is higher in the outer half of the molecular layer than in the inner half, and in the neuropil of CA4 and CA3 (PubMed:8838578). Expressed in the putamen (at protein level) (PubMed:17296554)

# Synaptophysin Antibody - Protocols

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

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

### Synaptophysin Antibody - Images



Western blot analysis of Synaptophysin expression in SH-SY5Y cell lysate.