

**Synaptophysin Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51545**

**Specification**

---

**Synaptophysin Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P08247</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>38 KDa</b>
Antigen Region	<b>101 - 160</b>

**Synaptophysin Antibody - Additional Information**

**Gene ID** 6855

**Other Names**

Synaptophysin, Major synaptic vesicle protein p38, SYP

**Target/Specificity**

KLH conjugated synthetic peptide derived from human Synaptophysin

**Dilution**

WB~~ 1:1000

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**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,

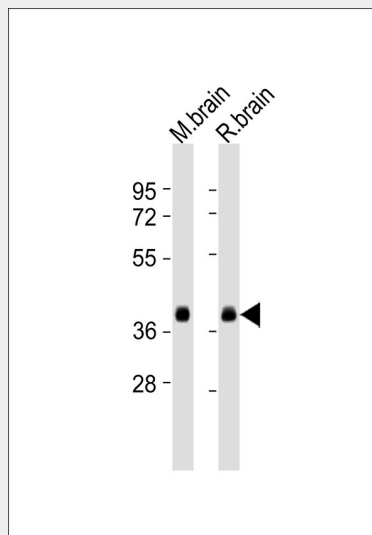
where expression is higher in the outer half of the molecular layer than in the inner half, and in the neuropil of CA4 and CA3 (PubMed:8838578). Expressed in the putamen (at protein level) (PubMed:17296554)

## Synaptophysin Antibody - Protocols

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

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

## Synaptophysin Antibody - Images



All lanes : Anti-Synaptophysin Antibody at 1:1000 dilution Lane 1: mouse brain lysates Lane 2: rat brain lysates Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 34 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## Synaptophysin Antibody - Background

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).

## Synaptophysin Antibody - References

- Suedhof T.C., et al. *Nucleic Acids Res.* 15:9607-9607(1987).  
Oezcelik T., et al. *Am. J. Hum. Genet.* 47:551-561(1990).  
Fisher S.E., et al. *Genomics* 45:340-347(1997).  
Ota T., et al. *Nat. Genet.* 36:40-45(2004).  
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

