

**Phospho-SYP(Y81) Antibody Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP3542a****Specification**

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**Phospho-SYP(Y81) Antibody Blocking peptide - Product Information**Primary Accession [P08247](#)**Phospho-SYP(Y81) Antibody Blocking peptide - Additional Information****Gene ID** 6855**Other Names**

Synaptophysin, Major synaptic vesicle protein p38, SYP

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP3542a](/products/AP3542a) was selected from the region of human Phospho-SYP-pY81. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Phospho-SYP(Y81) Antibody Blocking peptide - 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)

### **Phospho-SYP(Y81) Antibody Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **Phospho-SYP(Y81) Antibody Blocking peptide - Images**

### **Phospho-SYP(Y81) Antibody Blocking peptide - Background**

Synaptophysin (p38) is an integral membrane protein of small synaptic vesicles in brain and endocrine cells.[supplied by OMIM].

### **Phospho-SYP(Y81) Antibody Blocking peptide - References**

Glantz,L.A., Neuroscience 149 (3), 582-591 (2007)Gonzalez-Aragoneses,F., Cancer 110 (8), 1776-1781 (2007)Bonanomi,D., Biochem. J. 404 (3), 525-534 (2007)