

## RABBIT ANTI-SYNAPSIN, phospho Serine 62,67 AFFINITY PURIFIED POLYCLONAL ANTIBODY

**CATALOG NUMBER:** AB9848

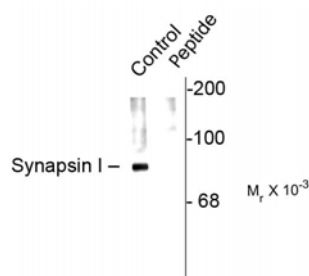
**LOT NUMBER:**

**QUANTITY:** 100 µL

**SPECIFICITY:** Synapsin I, phospho Serine 62,67. The antibody recognizes a protein doublet of ~78 kDa corresponding to Synapsin I, phospho Serine 62,67 in lysates from rat cortex. Immunolabeling is blocked by preadsorption with the phospho-peptide used as the immunogen but not by the corresponding dephospho-peptide.

**IMMUNOGEN:** Synthetic peptide of amino acids surrounding the phosphoSerine 62,67 site of rat Synapsin I.

**APPLICATIONS:** Western blot: 1:1,000



Western Blot of rat brain cortex.

Optimal working dilutions must be determined by the end user.

**SPECIES REACTIVITIES:** Rat. Other species have not been tested. The immunogen has 100% homology with mouse and bovine.

**FORMAT:** Affinity purified immunoglobulin

**PRESENTATION:** Liquid in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg/mL BSA and 50% glycerol.

**STORAGE/HANDLING:** Maintain at -20°C in undiluted for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles. Do not store in a self defrosting freezer.

**RELATED REFERENCES:** Jovanovic JN, Benfenati, F, Siow YL, Sihra TS, Sanghera JS, Pelech SL, Greengard P, Czernik AJ (1996) Neurotrophins stimulate phosphorylation of Synapsin I by MAP kinase and regulate Synapsin I-actin interactions. *Neurobiology* **93**:3679-3683.

Czernik AJ, Pang DT, Greengard P (1987) Amino acid sequences surrounding the cAMP-dependent and calcium/calmodulin-dependent phosphorylation sites in rat and bovine synapsin I. *Proc Natl Acad Sci (USA)* **84**:7518-7522.

Feng J, Chi P, Blanpied TA, Xu YM, Magarinos AM, Ferreira A, Takahashi RH, Kao HT, McEwen

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BS, Ryan TA, Augustine GJ, Greengard P (2002) Regulation of neurotransmitter release by synapsin III. *J Neurosci* **22**:4372-4380.

Jovanovic JN, Sihra TS, Nairn AC, Hemmings HC, Jr., Greengard P, Czernik AJ (2001) Opposing changes in phosphorylation of specific sites in synapsin I during  $\text{Ca}^{2+}$ -dependent glutamate release in isolated nerve terminals. *J Neurosci* **21**:7944-7953.

Kao HT, Song HJ, Porton B, Ming GL, Hoh J, Abraham M, Czernik AJ, Pieribone VA, Poo MM, Greengard P (2002) A protein kinase A-dependent molecular switch in synapsins regulates neurite outgrowth. *Nature Neurosci* **5**:431-437.

Nayak AS, Moore CI, Browning MD (1996) CAM kinase II phosphorylation of the presynaptic protein synapsin is persistently increased during expression of long-term potentiation. *Proc Natl Acad Sci (USA)* **93**:15451-15456.

**Important Note:** During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu\text{L}$  or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

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