

# Syn1 (phospho S549) polyclonal antibody

Catalog # PAB9656      Size 100 uL

## Applications



### Western Blot (Tissue lysate)

Western blot of rat cortex lysate showing specific immunolabeling of the ~78k Syn1 phosphorylated at Ser549 (Control, lane 1). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: lambda-Ptase, lane 2). The blot is identical to the control except that it was incubated in lambda-Ptase (1200 units for 30 min) before being exposed to the Syn1 (phospho S549) polyclonal antibody (Cat # PAB9656). The immunolabeling is completely eliminated by treatment with lambda-Ptase.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic phosphopeptide of Syn1.
<b>Immunogen</b>	Synthetic phosphopeptide corresponding to residues surrounding S549 of rat Syn1.
<b>Host</b>	Rabbit
<b>Theoretical MW (kDa)</b>	78
<b>Reactivity</b>	Bovine, Dog, Human, Mouse, Primates, Rat
<b>Form</b>	Liquid
<b>Purification</b>	Affinity purification
<b>Quality Control Testing</b>	Antibody Reactive Against Synthetic Peptide.
<b>Recommend Usage</b>	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 10 mM HEPES, 150 mM NaCl, pH 7.5 (50% glycerol, 10% BSA)

**Storage Instruction**

Store at -20°C.  
Aliquot to avoid repeated freezing and thawing.

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## Gene Info — Syn1

Entrez GeneID	<a href="#">24949</a>
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Protein Accession#	<a href="#">P17599</a>
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Gene Name	Syn1
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Gene Alias	-
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Gene Description	synapsin I
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Gene Ontology	<a href="#">Hyperlink</a>
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Other Designations	synapsin 1
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## Publication Reference

- [Regulation of neurotransmitter release by synapsin III.](#)

Feng J, Chi P, Blanpied TA, Xu Y, Magarinos AM, Ferreira A, Takahashi RH, Kao HT, McEwen BS, Ryan TA, Augustine GJ, Greengard P.

Journal of Neuroscience 2002 Jun; 22(11):4372.

- [A protein kinase A-dependent molecular switch in synapsins regulates neurite outgrowth.](#)

Kao HT, Song HJ, Porton B, Ming GL, Hoh J, Abraham M, Czernik AJ, Pieribone VA, Poo MM, Greengard P.

Nature Neuroscience 2002 Apr; 5(5):431.

- [Opposing changes in phosphorylation of specific sites in synapsin I during Ca<sup>2+</sup>-dependent glutamate release in isolated nerve terminals.](#)

Jovanovic JN, Sihra TS, Nairn AC, Hemmings HC Jr, Greengard P, Czernik AJ.

The Journal of Neuroscience 2001 Oct; 21(20):7944.

Application: WB, Rat, Synaptosomes generated from cerebral cortices