

Syn1 (phospho S9) polyclonal antibody

Catalog # PAB9664 Size 100 uL

Applications



Western Blot (Tissue lysate)

Western blot of rat cortex lysate showing specific immunolabeling of the ~78k Syn1 phosphorylated at Ser9 (Control). The phosphospecificity of this labeling is shown in the second lane (lambda-phosphatase: lambda-Ptase). 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 S9) polyclonal antibody (Cat # PAB9664). The immunolabeling is completely eliminated by treatment with lambda-Ptase.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of Syn1.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S9 of rat Syn1.
Host	Rabbit
Theoretical MW (kDa)	78
Reactivity	Bovine, Clawed frog, Human, Mouse, Rat, Zebra fish
Specificity	This antibody also weakly labels the ~55k synapsin II protein which has a similar phosphorylation site to that of Ser9 on synapsin I.
Form	Liquid
Purification	Affinity purification
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (1:1000) The optimal working dilution should be determined by the end user.

Storage Buffer	In 10 mM HEPES, 150 mM NaCl, pH 7.5 (50% glycerol, 10% BSA)
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Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
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Gene Info — Syn1

Entrez GeneID	24949
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Protein Accession#	P17599
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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	Hyperlink
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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 Ca²⁺-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