

# Phospho-Synapsin (Ser9) Antibody



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<b>Applications:</b> W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 77	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P17600	<b>Entrez-Gene Id:</b> 6853
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
<b>Specificity/Sensitivity</b>	Phospho-Synapsin (Ser9) Antibody detects endogenous levels of synapsin only when phosphorylated at serine 9. The antibody is expected to recognize phosphorylated serine 9 of all synapsin isoforms.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding serine 9 of human synapsin I. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	Synapsins, a group of at least five related members (synapsins Ia, Ib, IIa, IIb, and IIIa), are abundant brain proteins essential for regulating neurotransmitter release (1,2). All synapsins contain a short amino-terminal domain that is highly conserved and phosphorylated by PKA or CaM kinase I (1). Phosphorylation of the synapsin amino-terminal domain at Ser9 inhibits its binding to phospholipids and dissociates synapsins from synaptic vesicles (2).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Greengard, P. (1987) <i>Mol Neurobiol</i> 1, 81-119.</li> <li>Hosaka, M. et al. (1999) <i>Neuron</i> 24, 377-87.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	<b>IMPORTANT:</b> For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.
<b>Applications Key</b>	<b>W:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat
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