

Synapsin-1 (D12G5) XP[®] Rabbit mAb

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Applications: W, W-S, IP, IHC-P, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 77	Source/Isotype: Rabbit IgG	UniProt ID: #P17600	Entrez-Gene Id: 6853
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Product Usage Information	<p>Application</p> <p>Western Blotting Simple Western™ Immunoprecipitation Immunohistochemistry (Paraffin) Immunofluorescence (Frozen)</p>	<p>Dilution</p> <p>1:1000 1:10 - 1:50 1:50 1:400 - 1:1600 1:200</p>
Storage	<p>Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.</p> <p>For a carrier-free (BSA and azide free) version of this product see product #53059.</p>	
Specificity/Sensitivity	<p>Synapsin-1 (D12G5) XP[®] Rabbit mAb detects endogenous levels of total synapsin protein. The antigen is 100% conserved between human synapsin-1a and synapsin-1b.</p>	
Source / Purification	<p>Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln483 of human synapsin-1 protein.</p>	
Background	<p>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).</p>	
Background References	<p>1. Greengard, P. (1987) <i>Mol Neurobiol</i> 1, 81-119. 2. Hosaka, M. et al. (1999) <i>Neuron</i> 24, 377-87.</p>	
Species Reactivity	<p>Species reactivity is determined by testing in at least one approved application (e.g., western blot).</p>	
Western Blot Buffer	<p>IMPORTANT: 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.</p>	
Applications Key	<p>W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen)</p>	
Cross-Reactivity Key	<p>H: Human M: Mouse R: Rat</p>	
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