Synapsin-1 (D12G5) XP® Rabbit mAb

Applications | Species Cross-Reactivity | Molecular Wt. | Isotype
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W, IP, IHC-P, IF-F | H, M, R | 77 kDa | Rabbit IgG**
Endogenous

Background: Synapsins, a group of at least five related members (synapsins Ia, Ib, Ila, Ilib 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 synapsin amino-terminal domain at serine 9 inhibits its binding to phospholipids and dissociates synapsins from synaptic vesicles (2).

Specificity/Sensitivity: 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.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln483 of human synapsin-1 protein.

Background References:

Recommended Antibody Dilutions:
Western blotting 1:1000
Immunoprecipitation 1:50
Immunohistochemistry (Paraffin) 1:800†
Unmasking buffer: Citrate
Antibody diluent: SignalStain® Antibody Diluent #8112
Detection reagent: SignalStain® Boost (HRP, Rabbit) #8114
†Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.

Recommended Antibody Dilutions:
Immunofluorescence (IF-F) 1:200
For application specific protocols please see the web page for this product at www.cellsignal.com.

For Research Use Only. Not For Use In Diagnostic Procedures.

Storage: 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.

*Species cross-reactivity is determined by western blot.
** Anti-rabbit secondary antibodies must be used to detect this antibody.

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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Immunohistochemical analysis of paraffin-embedded mouse cortex using Synapsin-1 (D12G5) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded rat retina using Synapsin-1 (D12G5) XP® Rabbit mAb.