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Synapsin-1 (D12G5) XP[®] Rabbit mAb (Alexa Fluor[®] 555 Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-F	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P17600	Entrez-Gene Id: 6853
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Product Usage Information	Application Immunofluorescence (Frozen)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	Synapsin-1 (D12G5) XP [®] Rabbit mAb (Alexa Fluor [®] 488 Conjugate) recognizes 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.	
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 555 fluorescent dye and tested in-house for direct immunofluorescent analysis in mouse and rat tissues. This antibody is expected to exhibit the same species cross reactivity as the unconjugated Synapsin-1 (D12G5) XP [®] Rabbit mAb #5297.	
Background	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).	
Background References	<ol style="list-style-type: none"> Greengard, P. (1987) <i>Mol Neurobiol</i> 1, 81-119. Hosaka, M. et al. (1999) <i>Neuron</i> 24, 377-87. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IF-F: Immunofluorescence (Frozen)
Cross-Reactivity Key	H: Human M: Mouse R: Rat
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