Synapsin-2 (D6S9C) Rabbit mAb





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Applications: W, IP, IF-F	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 77	Source/Isotype: Rabbit IgG	UniProt ID: #Q92777	Entrez-Gene Id: 6854		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (Frozen)			Dilution 1:1000 1:50 1:400			
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.				ol and less than		
Synapsin-2 (D6S9C) Rabbit			bbit mAb recognize	it mAb recognizes endogenous levels of total synapsin-2 protein				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly503 of human synapsin-2 protein.						
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). Synapsin proteins help control release of neurotransmitters by tethering clusters of synaptic vesicles to the actin cytoskeleton at pre-synaptic terminals (3). As might be expected given the role these proteins play in neuronal cell function, mutations in the corresponding synapsin genes have been examined for association with neurological disorders. Mutations in the corresponding <i>SYN2</i> gene tentatively implicate synapsin-2 in susceptibility to schizophrenia, bipolar disorder, and autism spectrum disorders (4-6).						
Background Re	eferences	1. Greengard, P. (1987) <i>Mol Neurobiol</i> 1, 81-119. 2. Hosaka, M. et al. (1999) <i>Neuron</i> 24, 377-87. 3. Cesca, F. et al. (2010) <i>Prog Neurobiol</i> 91, 313-48. 4. Saviouk, V. et al. (2007) <i>Schizophr Res</i> 96, 100-11. 5. Cruceanu, C. et al. (2012) <i>PLoS One</i> 7, e32680. 6. Corradi, A. et al. (2014) <i>Hum Mol Genet</i> 23, 90-103.						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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