85852 Store at -200

Synapsin-2 (D6S9C) Rabbit mAb



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	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa):	Source/Isotype: Rabbit IgG	UniProt ID: #Q92777	Entrez-Gene Id: 6854	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imr	nunoprecipitation			1:	50	
	Imr	Immunofluorescence (Frozen)			1:400		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	rity Syn	Synapsin-2 (D6S9C) Rabbit mAb recognizes endogenous levels of total synapsin-2 protein					
Species predicted to react based on 100% sequence homology	б	nan					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly503 of human synapsin-2 protein.					
Background	prot term of th syna Synactin neur with	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 aminoterminal 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 Referer	1. G 2. H	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) Prog Neurobiol 91, 313-48.
- 4. Saviouk, V. et al. (2007) Schizophr Res 96, 100-11.
- 5. Cruceanu, C. et al. (2012) PLoS One 7, e32680.
- 6. Corradi, A. et al. (2014) Hum Mol Genet 23, 90-103.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot 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 Key

WB: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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