Store at -20C

Synaptophysin (D40C4) Rabbit



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For Research Use Only, Not for Use in Diagnostic Procedures

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 38	Source/Isotype: Rabbit IgG	UniProt ID: #P08247	Entrez-Gene Id 6855	
Product Usage Information	Application			Dilution			
	We	Western Blotting			1:1000		
	Imr	Immunoprecipitation			1:50		
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 / Sensitivity		Synaptophysin (D40C4) Rabbit mAb detects endogenous levels of total synaptophysin protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Pro195 of human synaptophysin protein.					
Background	and or ga prev syna	Synaptophysin (SYP) is a neuronal synaptic vesicle glycoprotein that is expressed in neuroendocrine cells and neoplasms (1). Synaptophysin contains four transmembrane domains that form a hexameric channel or gap junction-like pore (2). Synaptophysin binds to the SNARE protein synaptobrevin/VAMP, which prevents the inclusion of synaptobrevin in the synaptic vesicle fusion complex and creates a pool of synaptobrevin for exocytosis when synapse activity increases (3). Synaptophysin is also responsible for targeting synaptobrevin 2/VAMP2 to synaptic vesicles, a critical component of the fusion complex (4).					
Background Refe	2. Vá 3. Ai	 Wiedenmann, B. et al. (1986) Proc Natl Acad Sci USA 83, 3500-4. Valtorta, F. et al. (2004) Bioessays 26, 445-53. Arthur, C.P. and Stowell, M.H. (2007) Structure 15, 707-14. Bonanomi, D. et al. (2007) Biochem J 404, 525-34. 					

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

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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