Synaptophysin (D35E4) Rabbit mAb



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Applications: W, 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 Western Blotting Immunoprecipitation			Dilution 1:1000 1:25	
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.				
Specificity/Sensitivity		Synaptophysin (D35E4) Rabbit mAb detects endogenous levels of total synaptophysin protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Ala230 of human synaptophysin protein.				
Background		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 por 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 References		1. Wiedenmann, B. et al. (1986) <i>Proc Natl Acad Sci USA</i> 83, 3500-4. 2. Valtorta, F. et al. (2004) <i>Bioessays</i> 26, 445-53. 3. Arthur, C.P. and Stowell, M.H. (2007) <i>Structure</i> 15, 707-14. 4. Bonanomi, D. et al. (2007) <i>Biochem J</i> 404, 525-34.				
Species Reactiv	ity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse F	R: Rat			
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