Synaptophysin (7H12) Mouse mAb (IF Formulated)



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Applications: IF-F	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P08247	Entrez-Gene Id: 6855
		Application Immunofluorescence (Frozen)		Dilution 1:200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycer 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			SA, 50% glycerol and less than
Specificity/Sensitivity		Synaptophysin (7H12) Mouse mAb (IF Formulated) recognizes endogenous levels of total synaptophysin protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the carboxy terminus 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 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 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 Reactivit	:y	Species reactivity is dete	rmined by testing in at le	ast one approved ap	plication (e.g., western blot).
Applications Key		IF-F: Immunofluorescence (Frozen)			
Cross-Reactivity Key		H: Human M: Mouse R: Rat			
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