Revision 1	Зупарторі			401) Datasneet with	out images cen	Signaling lectriology	
Synaptop	hysin (D3	n (D35E4) Rabbit				Cell Signaling	
Store					Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#			- 4	3 Trask L	ane   Danvers   Ma	ssachusetts   01923   USA	
For Research Use Only. Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 38	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P08247	Entrez-Gene Id: 6855	
Product Usage Information	Api	olication			Dilutior		
		Western Blotting				1:1000	
		Immunoprecipitation				1:25	
Storage						ycerol and less than	
Specificity / Sensi				ects endogenous levels		sin protein.	
Source / Purification	on Mon	Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Ala230 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 Refer	2. Va 3. Ar	<ol> <li>Wiedenmann, B. et al. (1986) Proc Natl Acad Sci USA 83, 3500-4.</li> <li>Valtorta, F. et al. (2004) Bioessays 26, 445-53.</li> <li>Arthur, C.P. and Stowell, M.H. (2007) Structure 15, 707-14.</li> <li>Bonanomi, D. et al. (2007) Biochem J 404, 525-34.</li> </ol>					
Species Reactivity	Speci	es reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buffe		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 IF	P: Immunoprecipi	tation			
Cross-Reactivity k	<b>X</b> : Xe	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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