3/27/24, 10:36 AM Revision 3

Synaptotagmin-1 (D33B7) Rabbit mAb						CHNOLOG 877-616-CELL (23 orders@cellsignal.c	
					Support:	877-678-TECH (83	
					Web:	info@cellsignal.c cellsignal.c	
				3 Trask L	ane Danvers Ma	ssachusetts 01923 L	
Research Use Only. No Applications:	ot for Use in Reactivity:	Diagnostic Proc Sensitivity:	edures. MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene lo	
WB, W-S, IP, IF-F	H M R	Endogenous	60	Rabbit IgG	#P21579	6857	
roduct Usage	Ар	olication			Diluti	ion	
formation		Western Blotting			1:1000		
	Sim	Simple Western™			1:10 - 1:50		
	Imn	Immunoprecipitation			1:50		
	Imn	Immunofluorescence (Frozen)			1:50		
torage		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. <i>Do not aliquot the antibody.</i>					
pecificity / Sensitiv	·••	Synaptotagmin-1 (D33B7) Rabbit mAb recognizes endogenous levels of total synaptotagmin-1 protein. This antibody may also cross-react with an unidentified protein of approximately 45 kDa.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg400 of human synaptotagmin-1 protein.					
Background	in ve trans bindi regu allov foun syna gluce calci	sicle trafficking and smembrane region, ing Ca ²⁺ (2). The C lating synaptic ves vs for interaction be d in synaptic vesicl ptic vesicle exocyt pse-induced insulir um-mediated vesic	d exocytosis (1). I , a central linker re 2 domains appea icle fusion in a ca etween adjacent S les, this integral m osis. Evidence su a secretion as well cle endocytosis ar	embrane protein found ndividual SYT1 proteins egion and a pair of carb ur to be functionally disti lcium-dependent manne SYT1 proteins (3). Beca nembrane protein is tho ggests possible roles ir I (4,5). SYT1 binds seven and an association betwee mediated exocytosis (6)	s are composed of a oxy-terminal C2 don inct, with the C2A do er during exocytosis use synaptotagmin 1 ught to act as a calci o vesicle-mediated en eral different SNARE een SYT1 and the SN	n amino-terminal nains responsible for main responsible for while the C2B domain L binds calcium and is um sensor in fast ndocytosis and proteins during	
ackground Referen		1. Fukuda, M. and Mikoshiba, K. (2001) <i>Biochem Biophys Res Commun</i> 281, 1226-33. 2. Südhof, T.C. (2002) <i>J Biol Chem</i> 277, 7629-32.					
	4. Ly 5. Ga	 Fernández-Chacón, R. et al. (2001) Nature 410, 41-9. Lynch, K.L. et al. (2007) Mol Biol Cell 18, 4957-68. Gauthier, B.R. and Wollheim, C.B. (2008) Am J Physiol Endocrinol Metab 295, E1279-86. Bai, J. et al. (2004) Neuron 41, 929-42. 					
pecies Reactivity	Speci	es reactivity is dete	ermined by testing	g in at least one approv	ed application (e.g.,	western blot).	
/estern 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.					
pplications Key	WB:	WB: Western Blotting W-S: Simple Western™ 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. mela 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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