Rab3A Antibody				
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
	Support:	877-678-TECH (8324)		
#3930	Web:	info@cellsignal.com cellsignal.com		
8	3 Trask Lane   Danvers   Massachusetts   01923   USA			
For Research Use Only. Not for Use in Diagnostic Procedures.				

	i <b>ctivity:</b> I M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 25	Source/Isotype: Rabbit	<b>UniProt ID:</b> #P20336	Entrez-Gene Id 5864	
Product Usage Information		Application Western Blotting			<b>Dilution</b> 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivit	у	Rab3A Antibody detects endogenous levels of total Rab3A protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu148 of human Rab3A. Antibodies are purified by peptide affinity chromatography.					
Background		vesicle trafficking. Mo of neurotransmitters cells (such as rat PC-1 between active GTP-l and chromaffin gran Rab3A is involved in o	embers of the Rab3 and hormones (1). 12 cells), and in hum bound Rab3A and th ule secretion during controlling synaptic effector Rabphillin, R	l, monomeric GTPases e subfamily, including Rab Rab3A is primarily expre an pancreatic β cells (3,4 e inactive GDP-bound fo late membrane release vesicle targeting and do ab3A also orchestrates t	b3A-3D, are involved ssed in neurons (2) 4). By acting as a mo prm, Rab3A inhibits (5,6). Loss-of-functi cking at the active	l in the exocytosis neuroendocrine olecular switch synaptic vesicle on studies suggest zone (7). Through	
Background Referen	ces	1. Zerial, M. and McBride, H. (2001) <i>Nat Rev Mol Cell Biol</i> 2, 107-17. 2. Geppert, M. et al. (1994) <i>Nature</i> 369, 493-7. 3. Weber, E. et al. (1996) <i>J Biol Chem</i> 271, 6963-71. 4. Yaekura, K. et al. (2003) <i>J Biol Chem</i> 278, 9715-21. 5. Johannes, L. et al. (1994) <i>EMBO J</i> 13, 2029-37. 6. Geppert, M. et al. (1997) <i>Nature</i> 387, 810-4. 7. Leenders, A.G. et al. (2001) <i>Mol Biol Cell</i> 12, 3095-102. 8. Coppola, T. et al. (2001) <i>J Cell Sci</i> 114, 1757-64.					
Species Reactivity		Species reactivity is d	letermined 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					
Cross-Reactivity Key		H: Human M: Mouse	R: Rat				
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