1/1/24, 1:53 PM Revision 1

Store at -20C	Phospho Antibody		min (Ser16)				TE C		
							Orders:	877-616-CELL (2355) orders@cellsignal.com	
							Support:	877-678-TECH (8324)	
#3353							Web:	info@cellsignal.com cellsignal.com	
#						3 Trask	Lane Danvers Mas	sachusetts   01923   USA	
For Research Use Only. Not for Use in Diagnostic Procedures.									
Ар	plications: Reactiv WB HMRHr			Sensitivity: Endogenous	<b>MW (kDa):</b> 19, 20	Source: Rabbit	<b>UniProt ID:</b> #P16949	Entrez-Gene Id: 3925	
Pro	duct Usage rmation		Арр	lication			Dilution		
			Wes	tern Blotting			1:1000		
Stor	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.						
Spe	Specificity / Sensitivity			Phospho-Stathmin (Ser16) Antibody recognizes endogenous levels of stathmin protein only when phosphorylated at Ser16.					
Source / Purification			Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser16 of human stathmin. Antibodies are purified using protein A and peptide affinity chromatography.						
Background			Stathmin is a ubiquitously expressed microtubule destabilizing phosphoprotein that is upregulated in a number of cancers. The amino terminus of the protein contains multiple phosphorylation sites and is involved in the promotion of tubulin filament depolymerization. Phosphorylation at these sites inactivates the protein and stabilizes microtubules. Ser16 phosphorylation by CaM kinases II and IV (1,2) increases during G2/M-phase and is involved in mitotic spindle regulation (3,4). Ser38 is a target for cdc2 kinase (5) and TNF-induced cell death gives rise to reactive oxygen intermediates leading to hyperphosphorylation of stathmin (6). EGF receptor activation of Rac and cdc42 also increases phosphorylation of stathmin on Ser16 and Ser38 (7). Other closely related family members are neuronally expressed and include SCG10, SCLIP, RB3 and its splice variants RB3' and RB3''. Stathmin and SCG10 have been shown to play roles in neuronal-like development in PC-12 cells (8).						
Background References		rences	<ol> <li>Marklund, U. et al. (1994) <i>Eur J Biochem</i> 225, 53-60.</li> <li>le Gouvello, S. et al. (1998) <i>J Immunol</i> 161, 1113-22.</li> <li>Mistry, S.J. and Atweh, G.F. (2001) <i>J Biol Chem</i> 276, 31209-15.</li> <li>Gavet, O. et al. (1998) <i>J Cell Sci</i> 111 ( Pt 22), 3333-46.</li> <li>Luo, X.N. et al. (1994) <i>J Biol Chem</i> 269, 10312-8.</li> <li>Vancompernolle, K. et al. (2000) <i>J Biol Chem</i> 275, 33876-82.</li> <li>Daub, H. et al. (2001) <i>J Biol Chem</i> 276, 1677-80.</li> <li>Di Paolo, G. et al. (1996) <i>J Cell Biol</i> 133, 1383-90.</li> </ol>						
Spe	Species Reactivity		Species reactivity is determined by testing in at least one approved 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			WB: Western Blotting						
	Cross-Reactivity Key		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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