Store at -20C

3426

Phospho-Stathmin (Ser38) Antibody

Orders:	877-616-CELL (2355) orders@cellsignal.com			
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 19, 20	Source: Rabbit	UniProt ID: #P16949	Entrez-Gene Id: 3925		
Product Usage Information		olication stern Blotting			Dilution 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 / Sensitiv		Phospho-Stathmin (Ser38) Antibody detects endogenous levels of stathmin protein only when phosphorylated at Ser38.						
Species predicted to react based on 100% sequence homology	6	key						
Source / Purification	resic	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser38 of human stathmin. Antibodies are purified using protein A and peptide affinity chromatography.						
Background	num invol the p durir and stath Ser1 SCL	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 Referer	2. le 3. Mi 4. Ga 5. Lu 6. Va 7. Da	 Marklund, U. et al. (1994) <i>Eur J Biochem</i> 225, 53-60. le Gouvello, S. et al. (1998) <i>J Immunol</i> 161, 1113-22. Mistry, S.J. and Atweh, G.F. (2001) <i>J Biol Chem</i> 276, 31209-15. Gavet, O. et al. (1998) <i>J Cell Sci</i> 111 (Pt 22), 3333-46. Luo, X.N. et al. (1994) <i>J Biol Chem</i> 269, 10312-8. Vancompernolle, K. et al. (2000) <i>J Biol Chem</i> 275, 33876-82. Daub, H. et al. (2001) <i>J Biol Chem</i> 276, 1677-80. Di Paolo, G. et al. (1996) <i>J Cell Biol</i> 133, 1383-90. 						
Species Reactivity	Speci	es reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g., we	estern 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:	WB: Western Blotting						
Cross-Reactivity Ke	X: 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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Limited Uses

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