Stathmin Antibody Cell Signaling 0rders: 877-616-CELL (2355)
orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com
cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 19	Source/Isotype: Rabbit	UniProt ID: #P16949	Entrez-Gene Id: 3925
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)			Dilution 1:1000 1:50	
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/Sensitivity		Stathmin Antibody detects endogenous levels of total stathmin protein. The antibody does not cross- react with related proteins such as SCG10, SCLIP and RB3.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser38 of human stathmin. Antibodies are purified by 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		 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		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		W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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