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e at -20C	Stathmin (D1Y5A) Rabbit n		Cell Signaling		
Store			Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#		3 Trask L	ane Danvers	Massachusetts 01923 USA	

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IHC-P, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 19	Source/Isotype: Rabbit IgG	UniProt ID: #P16949	Entrez-Gene Id: 3925		
Product Usage Information	We Im	plication estern Blotting nunohistochemistry nunofluorescence (. ,	nistry)		Dilution 1:1000 1:2000 1:800		
Storage		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. Do not aliquot the antibody.						
Specificity / Sensitivity		Stathmin (D1Y5A) Rabbit mAb recognizes endogenous levels of total stathmin protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro142 of human stathmin protein.						
Background Background References		 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). 1. Marklund, U. et al. (1994) <i>Eur J Biochem</i> 225, 53-60. 2. le Gouvello, S. et al. (1998) <i>J Immunol</i> 161, 1113-22. 3. Mistry, S.J. and Atweh, G.F. (2001) <i>J Biol Chem</i> 276, 31209-15. 4. Gavet, O. et al. (1998) <i>J Cell Sci</i> 111 (Pt 22), 333-46. 5. Luo, X.N. et al. (2000) <i>J Biol Chem</i> 275, 33876-82. 7. Daub, H. et al. (2001) <i>J Biol Chem</i> 276, 1677-80. 8. Di Paolo, G. et al. (1996) <i>J Cell Biol</i> 133, 1383-90. 						
Species Reactivity	Spec	ies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	vestern 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 IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)						
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						
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. SignalStain is a registered trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.						

Stathmin (D1Y5A) Rabbit mAb (#13655) Datasheet Without Images Cell Signaling Technology

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