န္မွ နို Stathmin (D1Y5A) Rabbit mAb





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Applications: W, 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 Storage		ApplicationDilutioWestern Blotting1:1000Immunohistochemistry (Paraffin)1:2000Immunofluorescence (Immunocytochemistry)1:800Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	For a carrier free (BSA and azide free) version of this product see product #38459. 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 Re	eferences	 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 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. (1994) <i>J Biol Chem</i> 276, 13209-15. 6. Vancompernolle, K. 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 Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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.				n 5% w/v BSA, 1X		
Applications K	ey	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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