

53 sto

Phospho-Stathmin (Ser16) Antibody



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Applications: W	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 19, 20	Source/Isotype: Rabbit	UniProt ID: #P16949	Entrez-Gene Id: 3925
Product Usage Information	2	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
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		 Marklund, U. et al. (1994) Eur J Biochem 225, 53-60. le Gouvello, S. et al. (1998) J Immunol 161, 1113-22. Mistry, S.J. and Atweh, G.F. (2001) J Biol Chem 276, 31209-15. Gavet, O. et al. (1998) J Cell Sci 111 (Pt 22), 3333-46. Luo, X.N. et al. (1994) J Biol Chem 269, 10312-8. Vancompernolle, K. et al. (2000) J Biol Chem 275, 33876-82. Daub, H. et al. (2001) J Biol Chem 276, 1677-80. Di Paolo, G. et al. (1996) J Cell Biol 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

Cross-Reactivity Key H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey

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