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## Phospho-Stathmin (Ser38) (D19H10) Rabbit mAb



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

<b>Applications:</b> WB, IP, IHC-P, IF-IC	Reactivity: H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 19, 20	Source/Isotype: Rabbit IgG	UniProt ID: #P16949	Entrez-Gene Id: 3925
Product Usage Information	Ар	plication				Dilution
	We	stern Blotting				1:1000
	Imr	nunoprecipitation				1:200
	Imr	nunohistochemistry	(Paraffin)			1:8000
	Imr	nunofluorescence (l	mmunocytochen	nistry)		1:12800
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20$ °C. Do not aliquot the antibody.				
Specificity / Sensiti	,	Phospho-Stathmin (Ser38) (D19H10) Rabbit mAb detects endogenous levels of stathmin protein only when phosphorylated at Ser38.				
Source / Purificatio	• •	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser38 of human stathmin protein.				
Background	num invo the <sub>I</sub> durin 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 Refere	2. le 3. M 4. G 5. Lu 6. Vá 7. D	<ol> <li>Marklund, U. et al. (1994) Eur J Biochem 225, 53-60.</li> <li>le Gouvello, S. et al. (1998) J Immunol 161, 1113-22.</li> <li>Mistry, S.J. and Atweh, G.F. (2001) J Biol Chem 276, 31209-15.</li> <li>Gavet, O. et al. (1998) J Cell Sci 111 ( Pt 22), 3333-46.</li> <li>Luo, X.N. et al. (1994) J Biol Chem 269, 10312-8.</li> <li>Vancompernolle, K. et al. (2000) J Biol Chem 275, 33876-82.</li> <li>Daub, H. et al. (2001) J Biol Chem 276, 1677-80.</li> <li>Di Paolo, G. et al. (1996) J Cell Biol 133, 1383-90.</li> </ol>				

**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 WB: Western Blotting IP: Immunoprecipitation 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

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Phospho-Stathmin (Ser38) (D19H10) Rabbit mAb (#4191) Datasheet Without Images Cell Signaling Technol...

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