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Phospho-FoxM1 (Thr600) (D9M6G) Rabbit



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 125	Source/Isotype: Rabbit IgG	UniProt ID: #Q08050	Entrez-Gene Id: 2305	
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:200		
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. <i>Do not aliquot the antibody.</i>					
Specificity/Ser	nsitivity	Phospho-FoxM1 (Thr600) (D9M6G) Rabbit mAb recognizes endogenous levels of FoxM1 protein only when phosphorylated at Thr600.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr600 of human FoxM1 protein.					
Background		Forkhead box M1 (FoxM1) is a forkhead box family transcription factor that regulates a number of genes throughout the cell cycle to help control DNA replication, mitosis, and cell proliferation. FoxM1 expression increases during G1 and S and reaches maximum levels in G2/M (1-3). Nuclear translocation occurs just before entry into G2/M and is associated with FoxM1 phosphorylation (4). Phosphorylation of FoxM1 by MAPK (Ser331, Ser704), Cyclin/Cdk (Ser4, Ser35, Thr600, Thr611, Thr620, Thr627, Ser638), Plk1 (Ser715, Ser724), and Chk2 (Ser376) stabilizes and activates FoxM1 (4-8). Forkhead box M1 is expressed in all embryonic tissues but is restricted to proliferating tissues in adults (9). Research studies show that FoxM1 expression is negatively regulated by p53 (10,11). Upregulation of FoxM1 is associated with many human cancers, including prostate, breast, lung, ovary, colon, pancreas, stomach, bladder, liver, and kidney, and may be associated with p53 mutations in some tumors (11,12). As a result, FoxM1 inhibitors have become a topic of interest for potential cancer therapy (13).					
Background R	eferences	 Wang, I.C. et al. (2005) <i>Mol Cell Biol</i> 25, 10875-94. Leung, T.W. et al. (2001) <i>FEBS Lett</i> 507, 59-66. Wang, X. et al. (2002) <i>Proc Natl Acad Sci U S A</i> 99, 16881-6. Ma, R.Y. et al. (2005) <i>J Cell Sci</i> 118, 795-806. Laoukili, J. et al. (2008) <i>Mol Cell Biol</i> 28, 3076-87. Fu, Z. et al. (2008) <i>Nat Cell Biol</i> 10, 1076-82. Tan, Y. et al. (2007) <i>Mol Cell Biol</i> 27, 1007-16. Anders, L. et al. (2011) <i>Cancer Cell</i> 20, 620-34. Ye, H. et al. (1997) <i>Mol Cell Biol</i> 17, 1626-41. Barsotti, A.M. and Prives, C. (2009) <i>Oncogene</i> 28, 4295-305. Pandit, B. et al. (2004) <i>Neoplasia</i> 6, 744-50. Gartel, A.L. (2008) <i>Expert Opin Ther Targets</i> 12, 663-5. 					
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot I	-	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivi	ty Key	H: Human					
Trademarks aı	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. XP is a registered trademark of Cell Signaling Technology, Inc.					

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