4655

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 Storage	2	Application Western Blotting Immunoprecipitation Supplied in 10 mM sod	lium HEPES (pH 7.5	5). 150 mM NaCl. 100 ug	Dilution 1:1000 1:200 /ml BSA, 50% alvcer	ol and less than	
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 References 1. Wang, I.C. et al. (2005) Mol Cell Biol 25, 10875-94. 2. Leung, T.W. et al. (2001) FEBS Lett 507, 59-66. 3. Wang, X. et al. (2002) Proc Natl Acad Sci U S A 99, 16881-6. 4. Ma, R.Y. et al. (2005) J Cell Sci 118, 795-806. 5. Laoukili, J. et al. (2008) Mol Cell Biol 28, 3076-87. 6. Fu, Z. et al. (2008) Nat Cell Biol 10, 1076-82. 7. Tan, Y. et al. (2007) Mol Cell Biol 27, 1007-16. 8. Anders, L. et al. (2007) Mol Cell Biol 17, 1626-41. 10. Barsotti, A.M. and Prives, C. (2009) Oncogene 28, 4295-30 11. Pandit, B. et al. (2009) Cell Cycle 8, 3425-7. 12. Pilarsky, C. et al. (2008) Expert Opin Ther Targets 12, 663-5.							
Species Reacti	vitv	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	ley	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivi	ty Key	H: Human					
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