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Phospho-FoxM1 (Ser35) Antibody



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 125	Source/Isotype: Rabbit	UniProt ID: #Q08050	Entrez-Gene Id: 2305	
Product Usage Information		Application Western Blotting	Dilution 1:1000				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sen	sitivity	Phospho-FoxM1 (Ser35) Antibody recognizes endogenous levels of FoxM1 protein only when phosphorylated at Ser35.					
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser35 of human FoxM1 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
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 Re	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 Reactiv	/ity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	-			te membrane with diluted primary antibody in 5% w/v nonfat °C with gentle shaking, overnight.			
Applications Ke	ey	W: Western Blotting					
Cross-Reactivit	су Кеу	H: Human					
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