FoxM1 Antibody Cell Signaling 0rders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 110	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/Sensitivity		FoxM1 Antibody detects endogenous levels of total FoxM1 protein. All three alternative splice variants are predicted to be recognized (FoxM1a, FoxM1b, and FoxM1c).					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus 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 References		 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	ivity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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					
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