e at -20C	FoxM1 (D12D5) XP [®] Rabbit mAb		Cell Signaling TECHNOLOGY®	
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Applications: WB, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #Q08050	Entrez-Gene Id: 2305	
Product Usage	Ар	plication				Dilution	
Information	We	estern Blotting				1:1000	
	Im	munofluorescence (I	mmunocytochen	nistry)		1:100	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensiti		FoxM1 (D12D5) XP [®] Rabbit mAb detects endogenous levels of total FoxM1 protein. This antibody is predicted to recognize all three isoforms (FoxM1a, FoxM1b and FoxM1c). Monoclonal antibody is produced by immunizing animals with recombinant protein to human FoxM1b.					
Source / Purificatio	n Mor						
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 Refere	2. L 3. W 4. M 5. L 6. F 7. T 8. A 9. Y 10. B 11. P 12. P	la, R.Y. et al. (2005) aoukili, J. et al. (200 u, Z. et al. (2008) <i>Na</i> an, Y. et al. (2007) <i>N</i> nders, L. et al. (2012) e, H. et al. (1997) <i>M</i>	01) FEBS Lett 50) Proc Natl Acad J Cell Sci 118, 7 8) Mol Cell Biol 2 at Cell Biol 10, 10 fol Cell Biol 27, 1 1) Cancer Cell 20 ol Cell Biol 17, 10 ves, C. (2009) O 1) Cell Cycle 8, 3 04) Neoplasia 6,)7, 59-66. <i>Sci U S A</i> 99, 16881-6. 95-806. 28, 3076-87.)76-82. 007-16. 0, 620-34. 626-41. <i>ncogene</i> 28, 4295-305. 425-7. 744-50.			
Species Reactivity	Spec	cies reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., w	estern 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	WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivity Ke	X: X	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					

Trademarks and Patents FoxM1 (D12D5) XP® Rabbit mAb (#5436) Datasheet Without Images Cell Signaling Technology

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