E2F-1 Antibody Cell Signaling 0rders: 877-616-CELL (2355)
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Applications: W, ChIP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit	UniProt ID: #Q01094	Entrez-Gene Id: 1869
Product Usage Information		For optimal ChIP results, use 5 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.				
		Application Western Blotting Chromatin IP			Dilution 1:1000 1:100	
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		E2F1 Antibody detects endogenous levels of total E2F1 protein. The antibody does not cross-react with other proteins.				
Species predicted to react based on 100% sequence homology		Rat, Bovine				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal residues of human E2F1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The E2F transcription factors are essential for regulation of the cell cycle (1,2). Physiological E2F is a heterodimer composed of an E2F subunit together with a DP subunit (3, 4). Six members of the E2F family have been identified, and each E2F subunit has a DNA binding and a dimerization domain. E2F-1 to -5 activate transcription. E2F-1 to -3 bind pRb, and E2F-4 and -5 bind p107 or p130, and these interactions are under cell cycle control (5-8). E2F-1 has oncogenic properties in vivo and in vitro. E2F-1 can induce apoptosis through p53-dependent and -independent mechanisms. E2F-1 is stress-responsive, and is regulated by a PI3-kinase-like kinase family such as the ATM/ATR kinases (9-11).				
Background Re	ferences	1. Helin, K. (1998) <i>Curi</i> 2. Dyson, N. (1998) <i>Ge</i> 3. Helin, K. et al. (1993) 4. Wu, C. et al. (1995) 5. Takahashi, Y. et al. (6. Wu, L. et al. (2001) <i>I</i> 7. Gaubatz, S. et al. (20 8. Hurford, R. K. et al. 9. Tsai, K. Y. et al. (199) 10. Garcia, I. et al. (200 11. Lin, W. C. et al. (200	r. Opin. Genet. Dev. mes Dev. 12, 2245-2) Genes Dev. 7, 185 Mol. Cell. Biol. 15, 2 2000) Genes Dev. 14 Vature 414, 457-462 000) Mol. Cell 6, 729 (1997) Genes Dev. 1 8) Mol. Cell 2, 293-3 00) Cell Growth Diff 01) Genes Dev. 15, 7	8, 28-35. 262. 0-1861. 536-2546. 4, 804-816. -735. 1, 1447-1463. 04. <i>er</i> , 11, 91-98. 1833-1844.		
Species Reactiv	ity	Species reactivity is de	etermined by testing	g in at least one approve	d 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 ChIP: Chromatin IP				
Cross-Reactivity Key		H: Human				
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