ATF-2 (D4L2X) XP [®] Rabbit mAb	С	Cell Signaling	
	Orders:	877-616-CELL (2355) orders@cellsignal.com	
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Applications: V, IP, IHC-P, ChIP, ChIP-seq	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 65 to 75	Source/Isotype: Rabbit IgG	UniProt ID: #P15336	Entrez-Gene Id 1386		
Product Usage Information		For optimal ChIP and ChIP-seq results, use 10 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 Dilution						
		Western Blotting			1:	1000		
		Immunoprecipitatior	1		1:	100		
		Immunohistochemistry (Paraffin)			1:400			
		Chromatin IP			1:50			
		Chromatin IP-seq		1:50				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycero 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				rol and less than		
		For a carrier free (BSA and azide free) version of this product see product #44072.						
Specificity/Sens	itivity	ATF-2 (D4L2X) XP [®] Rabbit mAb recognizes endogenous levels of total ATF-2 protein.						
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln170 of human ATF-2 protein.						
Background		The transcription factor ATF-2 (also called CRE-BP1) binds to both AP-1 and CRE DNA response elements and is a member of the ATF/CREB family of leucine zipper proteins (1). ATF-2 interacts with a variety of viral oncoproteins and cellular tumor suppressors and is a target of the SAPK/JNK and p38 MAP kinase signaling pathways (2-4). Various forms of cellular stress, including genotoxic agents, inflammatory cytokines, and UV irradiation, stimulate the transcriptional activity of ATF-2. Cellular stress activates ATF-2 by phosphorylation of Thr69 and Thr71 (2-4). Both SAPK and p38 MAPK have been shown to phosphorylate ATF-2 at these sites <i>in vitro</i> and in cells transfected with ATF-2. Mutations of these sites result in the loss of stress-induced transcription by ATF-2 (2-4). In addition, mutations at these sites reduce the ability of E1A and Rb to stimulate gene expression via ATF-2 (2).						
Background Ref	erences	1. Abdel-Hafiz, H.A. et al. (1992) <i>Mol Endocrinol</i> 6, 2079-89. 2. Gupta, S. et al. (1995) <i>Science</i> 267, 389-93. 3. van Dam, H. et al. (1995) <i>EMBO J</i> 14, 1798-811. 4. Livingstone, C. et al. (1995) <i>EMBO J</i> 14, 1785-97.						
				98-811.				
Species Reactivi	ty		l. (1995) <i>EMBO J</i> 14,	98-811.	ed application (e.g.,	western blot).		
Species Reactivi Western Blot Bu	-	Species reactivity is d IMPORTANT: For wes	l. (1995) <i>EMBO J</i> 14, etermined by testing tern blots, incubate	98-811. 1785-97.	primary antibody i			
•	iffer	Species reactivity is d IMPORTANT: For wes dry milk, 1X TBS, 0.19	I. (1995) <i>EMBO J</i> 14, etermined by testing tern blots, incubate 6 Tween® 20 at 4°C (P: Immunoprecipita	98-811. 1785-97. g in at least one approve membrane with diluted	primary antibody i ernight.	n 5% w/v nonfat		
Western Blot Bu	iffer V	Species reactivity is d IMPORTANT: For wes dry milk, 1X TBS, 0.19 W: Western Blotting J	I. (1995) <i>EMBO J</i> 14, etermined by testing tern blots, incubate 6 Tween® 20 at 4°C (P: Immunoprecipita tin IP-seq	98-811. 1785-97. g in at least one approve membrane with diluted with gentle shaking, ove	primary antibody i ernight.	n 5% w/v nonfat		
Western Blot Bu Applications Ke	iffer V Key	Species reactivity is d IMPORTANT: For wes dry milk, 1X TBS, 0.1% W: Western Blotting J IP ChIP-seq: Chroma H: Human M: Mouse	I. (1995) <i>EMBO J</i> 14, etermined by testing tern blots, incubate 6 Tween® 20 at 4°C (P: Immunoprecipita tin IP-seq R: Rat	98-811. 1785-97. g in at least one approve membrane with diluted with gentle shaking, ove	primary antibody i ernight. tochemistry (Paraff	n 5% w/v nonfat		
Western Blot Bu Applications Ke Cross-Reactivity	iffer V Key	Species reactivity is d IMPORTANT: For wes dry milk, 1X TBS, 0.19 W: Western Blotting J IP ChIP-seq: Chroma H: Human M: Mouse Cell Signaling Techno	I. (1995) <i>EMBO J</i> 14, etermined by testing tern blots, incubate 6 Tween® 20 at 4°C (P: Immunoprecipita tin IP-seq R: Rat logy is a trademark	98-811. 1785-97. g in at least one approve membrane with diluted with gentle shaking, ove ition IHC-P: Immunohist	primary antibody i ernight. tochemistry (Paraff logy, Inc.	n 5% w/v nonfat		

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