

35031

ATF-2 (D4L2X) XP® Rabbit mAb



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Applications: W, 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 μ l of antibody and 10 μ g 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
		Immunoprecipitation	1		1:	100
		Immunohistochemis	try (Paraffin)		1:	400
		Chromatin IP				50
		Chromatin IP-seq			1:	50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #44072.				
Specificity/Sensitivity		ATF-2 (D4L2X) XP^{\otimes} Rabbit mAb recognizes endogenous levels of total ATF-2 protein.				
Source / Purification		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 References		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.				
Species Reactiv	vity	Species reactivity is d	etermined by testir	g in at least one approve	ed application (e.g.,	western blot).
•						
Western Blot B	Ruffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v ponfat				

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) ChIP: Chromatin

IP ChIP-seq: Chromatin IP-seq

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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