Phospho-ATF-2 (Thr69/71) Antibody





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Applications: W, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit	UniProt ID: #P15336	Entrez-Gene Id: 1386		
Product Usage Information	ġ	Application Western Blotting Immunohistochemistry (Paraffin)		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/Ser	nsitivity	Phospho-ATF-2 (Thr69/71) Antibody detects endogenous levels of ATF-2 only when dually phosphorylated at both threonine 69 and threonine 71. It does not recognize ATF-2 singly phosphorylated at either threonine 69 or threonine 71.						
Source / Purification Polyclonal antibodies are produced by immunizing an corresponding to residues surrounding Thr69 and Th protein A and peptide affinity chromatography.				Thr69 and Thr71 of huma				
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 R	eferences	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 Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot BufferIMPORTANT: For western blots, incubate me TBS, 0.1% Tween® 20 at 4°C with gentle sha				membrane with diluted primary antibody in 5% w/v BSA, 1X haking, overnight.				
Applications K	ley	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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