

Phospho-ATF-2 (Thr71) (11G2) Rabbit mAb (Biotinylated)



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #P15336	Entrez-Gene Id: 1386
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		Phospho-ATF-2 (Thr71) (11G2) Rabbit mAb (Biotinylated) detects endogenous levels of ATF-2 only when phosphorylated at Thr71. This antibody does not cross-react with phosphorylated c-Jun, CREB or other transcription factors. It recognizes both Thr69/Thr71 dually phosphorylated ATF-2 and Thr71 singly phosphorylated ATF-2 equally well.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr71 of human ATF2 protein.				
Description		This Cell Signaling Technology (CST) antibody is conjugated to biotin under optimal conditions. The unconjugated Phospho-ATF-2 (Thr71) (11G2) Rabbit mAb #5112 reacts with human, mouse, rat and monkey phospho-ATF-2 protein. CST expects that Phospho-ATF-2 (Thr71) (11G2) Rabbit mAb (Biotinylated) will also recognize phospho-ATF-2 in these species.				
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		 Abdel-Hafiz, H.A. et al. (1992) <i>Mol Endocrinol</i> 6, 2079-89. Gupta, S. et al. (1995) <i>Science</i> 267, 389-93. van Dam, H. et al. (1995) <i>EMBO J</i> 14, 1798-811. Livingstone, C. et al. (1995) <i>EMBO J</i> 14, 1785-97. 				
Species Reactiv	rity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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