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Phospho-ATF-2 (Thr71) (11G2) Rabbit mAb (PE Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P15336	Entrez-Gene Id: 1386
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
Specificity/Sensitivity	Phospho-ATF-2 (Thr71) (11G2) Rabbit mAb (PE Conjugate) detects endogenous levels of ATF-2 only when phosphorylated at Thr71. The unconjugated antibody does not cross-react with phosphorylated c-Jun, CREB, or other transcription factors, but it does recognize ATF-2 dually phosphorylated at Thr69/Thr71 and singly phosphorylated at Thr71 equally well.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr71 of human ATF-2 protein.	
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-ATF-2 (Thr71) (11G2) Rabbit mAb #5112.	
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	<ol style="list-style-type: none"> 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 Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human
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