

#5112
Store at -20C**Phospho-ATF-2 (Thr71) (11G2) Rabbit mAb**
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, FC-FP	H M R Mk	Endogenous	70	Rabbit IgG	#P15336	1386

Product Usage Information**Application**Western Blotting
Flow Cytometry (Fixed/Permeabilized)**Dilution**1:1000
1:1600**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.

Specificity/Sensitivity

Phospho-ATF-2 (Thr71) (11G2) Rabbit mAb detects endogenous levels of ATF-2 only when phosphorylated at threonine 71. 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.

BackgroundThe 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 *in vitro* 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) *Mol Endocrinol* 6, 2079-89.
2. Gupta, S. et al. (1995) *Science* 267, 389-93.
3. van Dam, H. et al. (1995) *EMBO J* 14, 1798-811.
4. Livingstone, C. et al. (1995) *EMBO J* 14, 1785-97.

Species Reactivity

Species reactivity is determined by testing in at least one approved 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 **FC-FP:** Flow Cytometry (Fixed/Permeabilized)**Cross-Reactivity Key****H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey**Trademarks and Patents**

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