

**Phospho ATF-2 (pT71) Rabbit Monoclonal Antibody
Product Data Sheet**

Catalog #1268-1

Clone ID: E268 Lot #: C05058
Quantity: 100 µl
Type: Rabbit Monoclonal IgG
Species Cross-reactivity: Human Mouse Rat
Applications: WB IHC ICC Flow Cytometry IP
Molecular Wt.: 70 kDa
UniProt ID: P15336

Background: ATF-2 (activating transcription factor-2, CRE-BP1) is a transcription factor that binds the cAMP response element (CRE) and AP-1 response element and is abundantly expressed in the brain. Various forms of cellular stress, including genotoxic agents, inflammatory cytokines, and UV irradiation, stimulate the transcriptional activity of ATF-2 (2). SAPK and p38 MAPK can activate, in response to cellular stress, ATF-2 by phosphorylating this protein at Thr69 and Thr71. Mutations of these sites result in the loss of stress-induced transcription by ATF-2 (2-4).

Specificity: A synthetic phospho-peptide corresponding to residues surrounding Thr71 of human ATF-2 was used as immunogen. The antibody only detects ATF-2 phosphorylated on Threonine 71.

Storage Conditions: Store at -20 °C. Buffer: 50 mM Tris-Glycine (pH 7.4), 0.15 M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.

Recommended Dilutions:

WB: 1:1,000 - 10,000
ICC: 1:100
IP: 1:40

Background References:

1. Maekawa, T., et al. Leucine zipper structure of the protein CRE-BP1 binding to the cyclic AMP response element in brain. *EMBO J.* 8: 2023-8 (1989).
2. Gupta, S., et al. Transcription factor ATF2 regulation by the JNK signal transduction pathway. *Science* 267: 389-393 (1995).
3. van Dam, H., et al. ATF-2 is preferentially activated by stress-activated protein kinases to mediate c-jun induction in response to genotoxic agents. *EMBO J.* 14: 1798-1811 (1995).
4. Livingstone, C., et al. ATF-2 contains a phosphorylation-dependent transcriptional activation domain. *EMBO J.* 14: 1785-1797 (1995).

Product QC'd by: _____

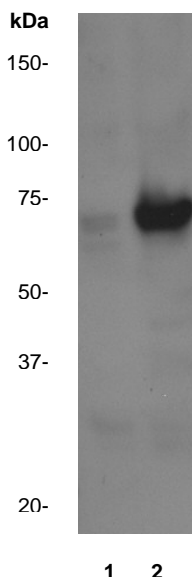


Fig 1. Western blot analysis on HeLa cell lysate using anti-Phospho-ATF-2 (pT71) RabMAb (cat. #1268-1); dilution 1:10,000. Cells were (1) untreated, and (2) treated with Anisomycin.

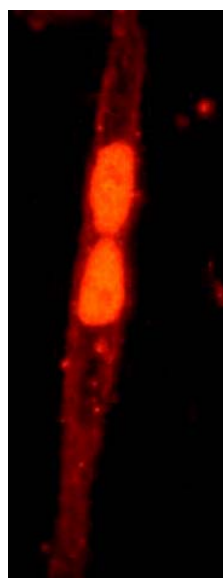


Fig 2. Immunofluorescent staining of HeLa cells using anti-Phospho-ATF-2 (pT71) RabMAb (cat. #1268-1).

For research use only. Not for use in diagnostic or therapeutic applications.

This product was manufactured under U.S. Patent No. 5,675,063 and 5,599,681. For a complete list of protocols and available related products, please visit www.epitomics.com.