

# Phospho-ATF2-T71 Rabbit mAb

Catalog No.: AP1051 **Recombinant** **2 Publications**

## Basic Information

### Observed MW

70kDa

### Calculated MW

55kDa

### Category

Primary antibody

### Applications

WB,ELISA

### Cross-Reactivity

Mouse

### CloneNo number

ARC1598

## Background

This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. This protein binds to the cAMP-responsive element (CRE), an octameric palindrome. It forms a homodimer or a heterodimer with c-Jun and stimulates CRE-dependent transcription. This protein is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro; thus it may represent a class of sequence-specific factors that activate transcription by direct effects on chromatin components. The encoded protein may also be involved in cell's DNA damage response independent of its role in transcriptional regulation. Several alternatively spliced transcript variants have been found for this gene.

## Recommended Dilutions

**WB** 1:500 - 1:2000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

1386

### Swiss Prot

P15336

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

HB16; CREB2; TREB7; CREB-2; CRE-BP1; Phospho-ATF2-T71

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

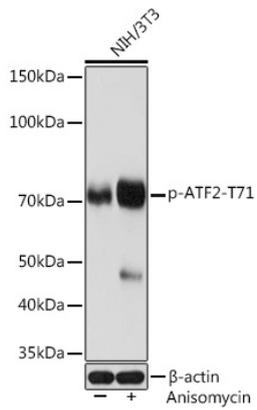
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data

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Western blot analysis of lysates from NIH/3T3 cells, using Phospho-ATF2-T71 Rabbit mAb (AP1051) at 1:1000 dilution. NIH/3T3 cells were treated with Anisomycin (25  $\mu\text{g}/\text{mL}$ ) at 37°C for 30 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 $\mu\text{g}$  per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 3s.