

Phospho-ATF-2 (Thr69/71)/ATF-7 (Thr51/53) Rabbit pAb

Catalog No.: AP1429

Basic Information

Observed MW

75kDa

Calculated MW

54kDa/51kDa

Category

Primary antibody

Applications

WB, ELISA

Cross-Reactivity

Human

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. Enables several functions, including DNA-binding transcription repressor activity, RNA polymerase II-specific; mitogen-activated protein kinase binding activity; and transcription coactivator binding activity. Involved in negative regulation of transcription by RNA polymerase II and positive regulation of transcription by RNA polymerase II. Located in nucleoplasm. Biomarker of colorectal cancer.

Recommended Dilutions

WB 1:500 - 1:1000

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

Immunogen Information

Gene ID
1386/11016

Swiss Prot
P15336/P17544

Immunogen

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

Synonyms

HB16; CREB2; TREB7; CREB-2; CRE-BP1; ATFA; Phospho-ATF-2 (Thr69/71)/ATF-7 (Thr51/53)

Contact

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Product Information

Source
Rabbit

Isotype
IgG

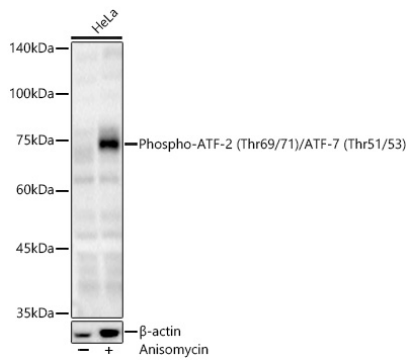
Purification
Affinity purification

Storage

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

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

Validation Data



Western blot analysis of lysates from HeLa cells, using Phospho-ATF-2 (Thr69/71)/ATF-7 (Thr51/53) Rabbit pAb (AP1429) at 1:600 dilution. HeLa cells were treated by Anisomycin (25 µg/mL) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.