



Catalog #: APRab04278

Summary

Production Name ATF-2 (phospho Thr71) Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit
Application IHC,WB,

Reactivity Human, Mouse, Rat

Performance

Conjugation Unconjugated

Modification Phospho Antibody

Isotype IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name ATF2

ATF2; CREB2; CREBP1; Cyclic AMP-dependent transcription factor ATF-2; cAMP-

Alternative Names dependent transcription factor ATF-2; Activating transcription factor 2; Cyclic AMP-

responsive element-binding protein 2; CREB-2; cAMP-responsive element-binding pro

Gene ID 1386.0

P15336.The antiserum was produced against synthesized peptide derived from human SwissProt ID

ATF2 around the phosphorylation site of Thr71 or 53. AA range:38-87

Application

Dilution Ratio WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000...

Molecular Weight 52kD

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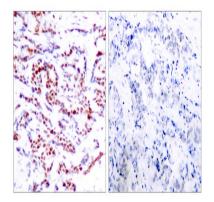
Background

activating transcription factor 2(ATF2) Homo sapiens 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 [provided by RefSeq, Jan 2014caution: It is uncertain whether Met-1 or Met-19 is the initiator, function: Transcriptional activator, probably constitutive, which binds to the cAMP-responsive element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Interaction with JUN redirects JUN to bind to CRES preferentially over the 12-Otetradecanoylphorbol-13-acetate response elements (TRES) as part of an ATF2-c-Jun complex., PTM: Phosphorylation of Thr-69 and Thr-71 by MAPK14 causes increased transcriptional activity. Also phosphorylated and activated by JNK., similarity: Belongs to the bZIP family., similarity: Belongs to the bZIP family. ATF subfamily., similarity: Contains 1 bZIP domain., similarity: Contains 1 C2H2-type zinc finger., subunit: Binds DNA as a dimer and can form a homodimer in the absence of DNA. Can form a heterodimer with JUN. Interacts with SMAD3 and SMAD4. Binds through its N-terminal region to UTF1 which acts as a coactivator of ATF2 transcriptional activity., tissue specificity: Abundant expression seen in the brain.,

Research Area

B Cell Receptor; Stem cell pathway; MAPK ERK Growth; MAPK G Protein; PI3K/Akt; Protein Acetylation

Image Data



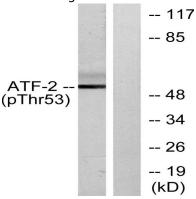
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using ATF2 (Phospho-Thr71 or 53)

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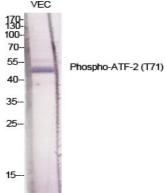
EnkiLife Product Name: ATF-2 (phospho Thr71) Rabbit Polyclonal Antibody **Antibody**

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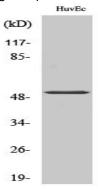
Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with UV, using ATF2 (Phospho-Thr71 or 53) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-ATF-2 (T71) Polyclonal Antibody diluted at 1: 1000



Western Blot analysis of HuvEc cells using Phospho-ATF-2 (T71) Polyclonal Antibody diluted at 1: 1000

Note

For research use only.