

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

CatalogNo: YP1266

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 56kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:1000-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human ATF-2 (Thr69 and 71)

Specificity This antibody detects endogenous levels of ATF-2 only when dually phosphorylated at both Thr69 and Thr71. It can also recognize ATF-7 only when dually phosphorylated at both Thr51 and Thr53., and phosphorylated at one sites.

Target Information

Gene name ATF2 CREB2 CREBP1

Protein Name ATF-2 (Thr69/71)

Organism	Gene ID	UniProt ID
Human	1386 ;	P15336 ;
Mouse	11909 ;	P16951 ;
Rat	81647 ;	Q00969 ;

Cellular Localization

Nucleus. Cytoplasm. Mitochondrion outer membrane. Shuttles between the cytoplasm and the nucleus and heterodimerization with JUN is essential for the nuclear localization. Localization to the cytoplasm is observed under conditions of cellular stress and in disease states. Localizes at the mitochondrial outer membrane in response to genotoxic stress. Phosphorylation at Thr-52 is required for its nuclear localization and negatively regulates its mitochondrial localization. Co-localizes with the MRN complex in the IR-induced foci (IRIF) .

Tissue specificity Ubiquitously expressed , with more abundant expression in the brain.

Function

Caution: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-O-tetradecanoylphorbol-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. ,

| Validation Data

| Contact information

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