
anti-pATF-2

Cat #: HM1402
Mouse monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

ATF-2 is a transcription factor that is a member of the ATF/CREB family. The ATF/CREB transcription factor family binds the palindromic cAMP response element (CRE) octanucleotide TGACGTCA. The ATF/CREB family includes CREB-1, CREB-2 (also designated ATF-4), ATF-1, ATF-2 and ATF-3. This family of proteins contain highly divergent N-terminal domains, but share a C-terminal leucine zipper for dimerization and DNA binding. ATF-2 binds to the cAMP-responsive element (CRE), an octameric palindrome. The protein forms a homodimer or heterodimer with c-Jun and stimulates CRE-dependent transcription. The 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. Phosphorylation of ATF-2 at Thr 69 and Thr 71 by stress-activated kinases is necessary for transcriptional activation. Myc also induces phosphorylation of ATF-2 at Thr 69 and Thr 71 to prolong the half-life of ATF-2.

SPECIFICITY

This antibody reacts with ATF-2 phosphorylated at Thr-71 of mouse, rat and human origin by Western Blotting, immunoprecipitation and immunofluorescence.

Molecular Weight of p-ATF-2: 70 kDa.

IMMUNOGEN

A peptide containing Thr 71 phosphorylated human ATF-2.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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