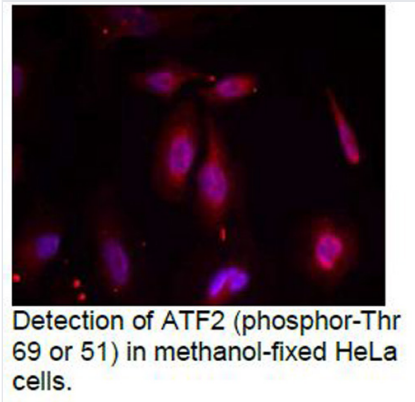
ATF2 Antibody – Rabbit Polyclonal

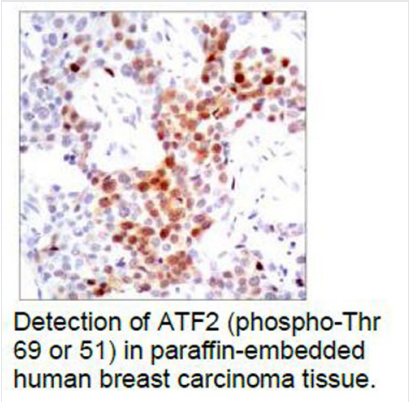
PRODUCT OVERVIEW

Product Name	ATF2, Polyclonal Antibody
Full Product Name	ATF2 (Phospho-Thr69 or 51)
Product Gene Name	anti-ATF2 antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	100ul at 1.0mg/ml in PBS (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Affinity-purified on phosphopeptide; non-phosphopeptide- reactive antibodies were removed by chromatography on non-phosphorylated peptide.
Specificity	This antibody detects endogenous human, mouse, and rat ATF2 only when phosphorylated at threonine 69 or 51.
Preparation and Storage	This antibody is stable for at least one (1) year at -20 degree C. Can be stored at 4 degree C for short-term use.
Molecular Weight	15,409 Da
OMIM	X15875 mRNA
3D Structure	ModBase 3D Structure for P15336
Antigen	Peptide sequence that includes phosphorylation sites of threonine 69 or 51(D-Q-T(p)- P-T) derived from human ATF2 and conjugated to KLH.
Applications Tested/Suitable for anti-ATF2 antibody	Immunoblotting (IB), Immunohistochemistry (IHC) Paraffin, Immunofluorescence (IF)
Application Notes for anti-ATF2 antibody	Immunoblotting: use at dilution of 1:500. A band of ~65-75kDa is detected. Immunohistochemistry: use at dilution of 1:50-1:100. Immunofluorescence: use at dilution of 1:100-1:200. Dilute in PBS or medium that is identical to that used in the assay system.
Related Product Information for anti-ATF2 antibody	ATF2 is a transcription factor that is a member of the leucine zipper family of DNA binding protein that can perform multiple functions. It can bind to the cAMP-responsive element (CRE), and it can form a homodimer or a heterodimer with c-Jun and stimulate CRE-dependent transcription. ATF2 is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro. ATF2 may also be involved in a cell's DNA damage response independent of its role in transcriptional regulation.
Other Notes	Small volumes of anti-ATF2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ATF2 purchase	MBS191042 is an antibody targeting ATF2. Also known as ATF2 (Phospho-Thr69 or 51). Host: Rabbit.



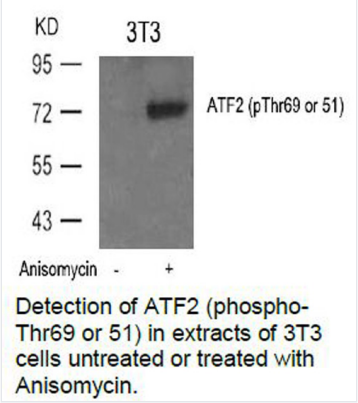
Detection of ATF2 (phosphor-Thr 69 or 51) in methanol-fixed HeLa cells.

Immunofluorescence (IF) of anti-ATF2 antibody



Detection of ATF2 (phospho-Thr 69 or 51) in paraffin-embedded human breast carcinoma tissue.

Immunohistochemistry (IHC) of anti-ATF2 antibody



Detection of ATF2 (phospho-Thr69 or 51) in extracts of 3T3 cells untreated or treated with Anisomycin.

Testing Data of anti-ATF2 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATF2. It may not necessarily be applicable to this product.

NCBI GI #	22538422
NCBI GeneID	1386
NCBI Accession #	NP_001871.2
UniProt Primary Accession #	P15336
UniProt Secondary Accession #	Q13000; Q3B7B7; Q4ZFU9; Q53RY2; Q8TAR1; A1L3Z2; A4D7U4; A4D7U5; A4D7V1; D3DPE9; G8JLM5
UniProt Related Accession #	P15336
GenBank Nucleotide #	NM_001880.3
NCBI Official Full Name	cyclic AMP-dependent transcription factor ATF-2 isoform 1
NCBI Official Synonym Full Names	activating transcription factor 2
NCBI Official Symbol	ATF2
NCBI Official Synonym Symbols	HB16; CREB2; TREB7; CREB-2; CRE-BP1
UniProt Protein Name	Cyclic AMP-dependent transcription factor ATF-2
UniProt Synonym Protein Names	Activating transcription factor 2; Cyclic AMP-responsive element-binding protein 2; CREB-2; cAMP-responsive element-binding protein 2; HB16; Histone acetyltransferase ATF2; cAMP response element-binding protein CRE-BP1
Protein Family	Alcohol O-acetyltransferase
UniProt Gene Name	ATF2

UniProt Synonym Gene Names	CREB2; CREBP1; cAMP-dependent transcription factor ATF-2; CREB-2; cAMP-responsive element-binding protein 2
NCBI Protein Information	cyclic AMP-dependent transcription factor ATF-2
NCBI Summary for ATF2	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 2014]
UniProt Comments for ATF2	ATF-2: a transcription factor that is a member of the leucine zipper family. Binds to the cAMP-responsive element (CRE). Forms a homodimer or heterodimer with c-Jun and stimulates CRE-dependent transcription. Also possesses histone acetyltransferase (HAT) activity that specifically acetylates histones H2B and H4 in vitro. Protein type: C2H2-type zinc finger protein; EC 2.3.1.48; Transcription factor Chromosomal Location of Human Ortholog: 2q31.1 Cellular Component: cytoplasm; mitochondrial outer membrane; nucleoplasm; nucleus Molecular Function: cAMP response element binding protein binding; histone acetyltransferase activity; protein binding; protein kinase binding; RNA polymerase II transcription factor activity, enhancer binding; transcription coactivator activity; transcription factor activity Biological Process: intra-S DNA damage checkpoint; positive regulation of transcription factor activity; positive regulation of transcription from RNA polymerase II promoter; regulation of transcription factor activity; regulation of transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent; response to DNA damage stimulus; response to osmotic stress
Research Articles on ATF2	**1.** miR-204 may act as a tumor suppressor by directly targeting ATF2 in non-small cell lung cancer
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