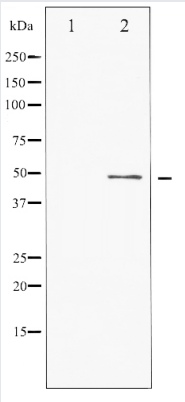
ATF2 Antibody

PRODUCT OVERVIEW

Product Name	ATF2, Antibody
Full Product Name	Phospho-ATF2 (Ser62 or 44) Antibody
Product Gene Name	anti-ATF2 antibody
Product Synonym Names	ATF2; Activating 2; CREB2; CREBP1; Cyclic-AMP-dependent ATF-2; HB16; MXBP protein; cAMP response element binding protein CRE-BP1
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	Phospho-ATF2 (Ser62 or 44) Antibody detects endogenous levels of ATF2 only when phosphorylated at Serine 62 or 44
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	52kDa
OMIM	123811
3D Structure	ModBase 3D Structure for P15336
Immunogen	A synthesized peptide derived from human ATF2 around the phosphorylation site of Serine 62 or 44
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATF2 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)
Application Notes for anti-ATF2 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-ATF2 antibody	This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein 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.
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	MBS8511359 is an antibody targeting ATF2. Also known as Phospho-ATF2 (Ser62 or 44) Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-ATF2 antibody
Western blot analysis of ATF2 phosphorylation expression in TNF-alpha treated HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

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

NCBI GI #	368711269
NCBI GeneID	1386
NCBI Accession #	NP_001243019.1
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_001256090.1
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	Transcriptional activator which regulates the transcription of various genes, including those involved in anti-apoptosis, cell growth, and DNA damage response. Dependent on its binding partner, binds to CRE (cAMP response element) consensus sequences (5'-TGACGTCA-3') or to AP-1 (activator protein 1) consensus sequences (5'-TGACTCA-3'). In the nucleus, contributes to global transcription and the DNA damage response, in addition to specific transcriptional activities that are related to cell development, proliferation and death. In the cytoplasm, interacts with and perturbs HK1- and VDAC1-containing complexes at the mitochondrial outer membrane, thereby impairing mitochondrial membrane potential, inducing mitochondrial leakage and promoting cell death. The phosphorylated form (mediated by ATM) plays a role in the DNA damage response and is involved in the ionizing radiation (IR)-induced S phase checkpoint control and in the recruitment of the MRN complex into the IR-induced foci (IRIF). Exhibits histone acetyltransferase (HAT) activity which specifically acetylates histones H2B and H4 in vitro. In concert with CUL3 and RBX1, promotes the degradation of KAT5 thereby attenuating its ability to acetylate and activate ATM. Can elicit oncogenic or tumor suppressor activities depending on the tissue or cell type.
Research Articles on ATF2	**1.** ATF2 regulated by miR-204 might also play an important role in the regulation of malignant behavior of glioblastoma.
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