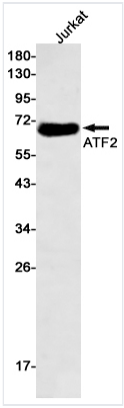
ATF2 Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	ATF2, Monoclonal Antibody
Full Product Name	ATF2 Rabbit mAb
Product Gene Name	anti-ATF2 antibody
Product Synonym Names	ATF2; CREB2; CREBP1; Cyclic AMP-dependent transcription factor ATF-2; cAMP-dependent transcription factor ATF-2; Activating transcription factor 2; Cyclic AMP-responsive element-binding protein 2; CREB-2; cAMP-responsive element-binding pro
Clonality	Monoclonal
Isotype	IgG
Clone Number	R09-8F4
Host	Rabbit
Species Reactivity	Human
Form/Format	50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Purity/Purification	Affinity Purified
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	54,537 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (175936978..176032934, complement). Location: 2q32
OMIM	123811
3D Structure	ModBase 3D Structure for P15336
Immunogen	A synthetic peptide of human ATF2
Product Categories/Family for anti-ATF2 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATF2 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunoprecipitation (IP)
Application Notes for anti-ATF2 antibody	WB: 1:500-1:1000 IF: 1:50-1:200 IP: 1:20
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. The protein is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro
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	MBS8602292 is an antibody targeting ATF2. Also known as ATF2 Rabbit mAb. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ATF2 antibody
Western blot analysis of ATF2 in Jurkat lysates using 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 #	368711269
NCBI GeneID	1386
NCBI Accession #	NP_001243019.1
UniProt Primary Accession #	P15336
UniProt Secondary Accession #	Q13000; Q4ZFU9; Q53RY2; Q8TAR1; A1L3Z2; D3DPE9
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; 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; 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
UniProt Entry Name	ATF2_HUMAN
NCBI Protein Information	cyclic AMP-dependent transcription factor ATF-2; CREB-2; cAMP-dependent transcription factor ATF-2; cAMP-responsive element-binding protein 2; cAMP response element-binding protein CRE-BP1; cyclic AMP-responsive element-binding protein 2; cAMP responsive
NCBI Summary for ATF2	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. 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. Several alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2012]

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: EC 2.3.1.48; Transcription factor; C2H2-type zinc finger protein Chromosomal Location of Human Ortholog: 2q32 Cellular Component: nucleoplasm; mitochondrial outer membrane; cytoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; histone acetyltransferase activity; protein heterodimerization activity; metal ion binding; transcription coactivator activity; cAMP response element binding protein binding; chromatin binding; transcription factor activity; protein kinase binding Biological Process: fat cell differentiation; transcription from RNA polymerase II promoter; establishment and/or maintenance of chromatin architecture; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; response to osmotic stress; positive regulation of transforming growth factor-beta2 production; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; regulation of transcription from RNA polymerase II promoter; MyD88-dependent toll-like receptor signaling pathway; regulation of transcription, DNA-dependent; regulation of transcription factor activity; intra-S DNA damage checkpoint; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription factor activity; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; histone acetylation; toll-like receptor 4 signaling pathway; response to DNA damage stimulus
Research Articles on ATF2	**1.** Phosphorylation of ATF2 by PKCepsilon is the master switch that controls its subcellular localization and function.
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