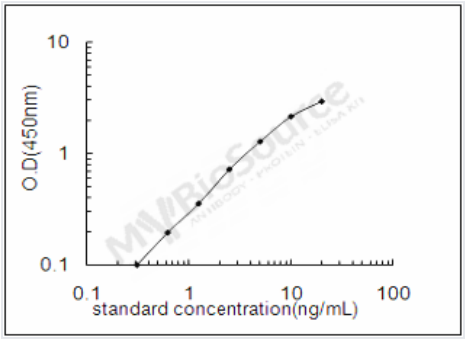
Cyclic AMP-Dependent Transcription Factor ATF-2 (ATF2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cyclic AMP-dependent transcription factor ATF-2 (ATF2), ELISA Kit
Full Product Name	Human Cyclic AMP-dependent transcription factor ATF-2 ELISA Kit
Product Gene Name	ATF2 elisa kit
Product Synonym Names	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
Species Reactivity	Human
Assay Type	Sandwich
Detection Range	0.312-20 ng/mL
Sensitivity	0.12ng/mL
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	15,409 Da
OMIM	123811
3D Structure	ModBase 3D Structure for P15336
Intra-Assay CV	<=5.4%
Inter-Assay CV	<=9.6%
Recovery	89%
Related Product Information for ATF2 elisa kit	MBS289819 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cyclic AMP-dependent transcription factor ATF-2 (ATF2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ATF2. The ELISA analytical biochemical technique of the MBS289819 kit is based on ATF2 antibody-ATF2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ATF2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ATF2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of ATF2 elisa kit 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.



Typical Testing Data/Standard Curve (for reference only) of ATF2 elisa kit

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
UniProt Entry Name	ATF2_HUMAN
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: Transcription factor; C2H2-type zinc finger protein; EC 2.3.1.48 Chromosomal Location of Human Ortholog: 2q32 Cellular Component: cytoplasm; mitochondrial outer membrane; nucleoplasm; nucleus Molecular Function: cAMP response element binding protein binding; chromatin binding; histone acetyltransferase activity; metal ion binding; protein binding; protein heterodimerization activity; protein kinase binding; RNA polymerase II transcription factor activity, enhancer binding; transcription coactivator activity; transcription factor activity Biological Process: establishment and/or maintenance of chromatin architecture; fat cell differentiation; histone acetylation; innate immune response; intra-S DNA damage checkpoint; MyD88-dependent toll-like receptor signaling pathway; MyD88-independent toll-like receptor signaling pathway; negative regulation of epithelial cell proliferation; negative regulation of transcription from RNA polymerase II promoter; positive regulation of neuron apoptosis; positive regulation of transcription factor activity; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transforming growth factor-beta2 production; 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; response to water deprivation; stress-activated MAPK cascade; toll-like receptor 10 signaling pathway; toll-like receptor 2 signaling pathway; toll-like receptor 3 signaling pathway; toll-like receptor 4 signaling pathway; toll-like receptor 5 signaling pathway; toll-like receptor 9 signaling pathway; toll-like receptor signaling pathway; transcription from RNA polymerase II promoter
Research Articles on ATF2	**1.** Study identified a potential target of miR-451, ATF2, and revealed a novel role of miR-451 in the inhibition of the migratory ability of hepatoma cell lines.
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