Activating Transcription Factor 2 (ATF2) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Activating Transcription Factor 2 (ATF2), ELISA Kit
Full Product Name	Rat Activating Transcription Factor 2 ELISA Kit
Product Gene Name	ATF2 elisa kit
Species Reactivity	Rat
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
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
Related Product Information for ATF2 elisa kit	MBS021770 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Activating Transcription Factor 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 MBS021770 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.

ADDITIONAL DETAILS

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

NCBI GI #	78070398
NCBI GeneID	1386
NCBI Accession #	AAI07699.1
UniProt Primary Accession #	P15336
UniProt Secondary Accession #	Q13000; Q3B7B7; Q4ZFU9; Q53RY2; Q8TAR1; A1L3Z2; A4D7U4; A4D7U5; A4D7V1; D3DPE9; G8JLM5
UniProt Related Accession #	P15336
NCBI Official Full Name	ATF2 protein
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 element binding protein 2, formerly; activating transcription factor 2 splice variant ATF2-var2
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; C2H2-type zinc finger protein; Transcription factor 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; cAMP response element binding protein binding; transcription coactivator activity; chromatin binding; protein kinase binding; transcription factor activity 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; positive regulation of transforming growth factor-beta2 production; response to osmotic stress; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; regulation of transcription from RNA polymerase II promoter; regulation of transcription factor activity; regulation of transcription, DNA-dependent; 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; histone acetylation; toll-like receptor 9 signaling pathway; 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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