Activating Transcription Factor 3 (ATF3) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Activating Transcription Factor 3 (ATF3), ELISA Kit
Full Product Name	Rat Activating Transcription Factor 3 ELISA Kit
Product Gene Name	ATF3 elisa kit
Species Reactivity	Rat
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	20,576 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (212738676..212794119). Location: 1q32.3
OMIM	603148
3D Structure	ModBase 3D Structure for Q6ICQ9
Related Product Information for ATF3 elisa kit	MBS041276 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Activating Transcription Factor 3 (ATF3) 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 ATF3. The ELISA analytical biochemical technique of the MBS041276 kit is based on ATF3 antibody-ATF3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ATF3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ATF3. 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 ATF3 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 ATF3. It may not necessarily be applicable to this product.

NCBI GI #	47496615
NCBI GeneID	467
NCBI Accession #	CAG29330.1
UniProt Primary Accession #	Q6ICQ9
UniProt Secondary Accession #	Q5VTZ2; Q6ICQ9; Q7Z566; Q8WYM6
UniProt Related Accession #	P18847
NCBI Official Full Name	ATF3
NCBI Official Synonym Full Names	activating transcription factor 3
NCBI Official Symbol	ATF3
UniProt Protein Name	Cyclic AMP-dependent transcription factor ATF-3
UniProt Synonym Protein Names	Activating transcription factor 3
Protein Family	Activating transcription factor

UniProt Gene Name	ATF3
UniProt Synonym Gene Names	cAMP-dependent transcription factor ATF-3
UniProt Entry Name	ATF3_HUMAN
NCBI Protein Information	cyclic AMP-dependent transcription factor ATF-3; cAMP-dependent transcription factor ATF-3
NCBI Summary for ATF3	This gene encodes a member of the mammalian activation transcription factor/cAMP responsive element-binding (CREB) protein family of transcription factors. This gene is induced by a variety of signals, including many of those encountered by cancer cells, and is involved in the complex process of cellular stress response. Multiple transcript variants encoding different isoforms have been found for this gene. It is possible that alternative splicing of this gene may be physiologically important in the regulation of target genes. [provided by RefSeq, Apr 2011]
UniProt Comments for ATF3	ATF-3: This protein binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Represses transcription from promoters with ATF sites. It may repress transcription by stabilizing the binding of inhibitory cofactors at the promoter. Isoform 2 activates transcription presumably by sequestering inhibitory cofactors away from the promoters. Belongs to the bZIP family. ATF subfamily. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor Chromosomal Location of Human Ortholog: 1q32.3 Cellular Component: nucleoplasm; nucleolus; nucleus Molecular Function: identical protein binding; protein binding; protein homodimerization activity; protein heterodimerization activity; transcription corepressor activity; transcription factor activity Biological Process: unfolded protein response, activation of signaling protein activity; cellular protein metabolic process; transcription, DNA-dependent; unfolded protein response; positive regulation of cell proliferation; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription from RNA polymerase II promoter; gluconeogenesis
Research Articles on ATF3	**1.** ATF3 is post-translationally modified by SUMO and SUMOylation of ATF3 plays a functional role in regulation of TP53 gene activity.
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