Activating Transcription Factor 6 (ATF6) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Activating Transcription Factor 6 (ATF6), ELISA Kit
Full Product Name	Human Activating Transcription Factor 6 ELISA Kit
Product Gene Name	ATF6 elisa kit
Species Reactivity	Human
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	74,585 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (161736034..161933860). Location: 1q22-q23
OMIM	605537
3D Structure	ModBase 3D Structure for P18850
Related Product Information for ATF6 elisa kit	MBS018412 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Activating Transcription Factor 6 (ATF6) 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 ATF6. The ELISA analytical biochemical technique of the MBS018412 kit is based on ATF6 antibody-ATF6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ATF6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ATF6. 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 ATF6 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 ATF6. It may not necessarily be applicable to this product.

NCBI GI #	2245630
NCBI GeneID	22926
NCBI Accession #	AAB64434.1
UniProt Primary Accession #	P18850
UniProt Secondary Accession #	O15139; Q5VW62; Q6IPB5; Q9UEC9
UniProt Related Accession #	P18850
NCBI Official Full Name	ATF6
NCBI Official Synonym Full Names	activating transcription factor 6
NCBI Official Symbol	ATF6
NCBI Official Synonym Symbols	ATF6A
UniProt Protein Name	Cyclic AMP-dependent transcription factor ATF-6 alpha
UniProt Synonym Protein Names	Activating transcription factor 6 alpha

Protein Family	Cyclic AMP-dependent transcription factor
UniProt Gene Name	ATF6
UniProt Synonym Gene Names	cAMP-dependent transcription factor ATF-6 alpha; ATF6-alpha
UniProt Entry Name	ATF6A_HUMAN
NCBI Protein Information	cyclic AMP-dependent transcription factor ATF-6 alpha; cAMP-dependent transcription factor ATF-6 alpha
NCBI Summary for ATF6	This gene encodes a transcription factor that activates target genes for the unfolded protein response (UPR) during endoplasmic reticulum (ER) stress. Although it is a transcription factor, this protein is unusual in that it is synthesized as a transmembrane protein that is embedded in the ER. It functions as an ER stress sensor/transducer, and following ER stress-induced proteolysis, it functions as a nuclear transcription factor via a cis-acting ER stress response element (ERSE) that is present in the promoters of genes encoding ER chaperones. This protein has been identified as a survival factor for quiescent but not proliferative squamous carcinoma cells. There have been conflicting reports about the association of polymorphisms in this gene with diabetes in different populations, but another polymorphism has been associated with increased plasma cholesterol levels. This gene is also thought to be a potential therapeutic target for cystic fibrosis. [provided by RefSeq, Aug 2011]
UniProt Comments for ATF6	ATF6A: Transcription factor that acts during endoplasmic reticulum stress by activating unfolded protein response target genes. Binds DNA on the 5'-CCAC[GA]-3'half of the ER stress response element (ERSE) (5'-CCAAT-N(9)-CCAC[GA]-3') and of ERSE II (5'-ATTGG-N-CCACG-3'). Binding to ERSE requires binding of NF-Y to ERSE. Could also be involved in activation of transcription by the serum response factor. Belongs to the bZIP family. ATF subfamily. Protein type: Membrane protein, integral; Transcription factor Chromosomal Location of Human Ortholog: 1q23.3 Cellular Component: Golgi membrane; nucleoplasm; Golgi apparatus; endoplasmic reticulum membrane; membrane; endoplasmic reticulum; integral to endoplasmic reticulum membrane; nuclear envelope; nucleus Molecular Function: protein binding; protein heterodimerization activity; transcription coactivator activity; transcription factor activity Biological Process: regulation of transcription from RNA polymerase II promoter; unfolded protein response, activation of signaling protein activity; cellular protein metabolic process; transcription, DNA-dependent; protein folding; unfolded protein response; positive regulation of transcription of target genes involved in unfolded protein response; response to stress; signal transduction Disease: Achromatopsia 7
Research Articles on ATF6	**1.** results demonstrate that ER stress-related proteins, particularly ATF6 and its downstream molecule CHOP, are involved in ox-LDL-induced cholesterol accumulation and apoptosis in macrophages
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/atf6-human-elisa-kits/activating-transcription-factor-6/18412