Activating Transcription Factor 3 (ATF-3) ELISA Kit for Human

PRODUCT OVERVIEW

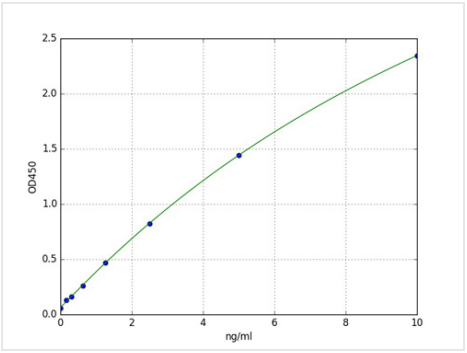
Product Name	Activating Transcription Factor 3 (ATF-3), ELISA Kit
Full Product Name	Human Activating Transcription Factor 3 ELISA Kit
Product Gene Name	ATF-3 elisa kit
Product Synonym Names	ATF-3/JDP1/JUNDM1/SNFT/basic leucine zipper transcription factor; ATF-like 3/basic leucine zipper transcriptional factor ATF-like 3/B-ATF-3/FLJ36352/FLJ37535,21 kDa small nuclear factor isolated from T-cells/JDP1/Jun dimerization protein 1/Jun dimerization protein p21SNFT/JUNDM1/SNFT21-kD small nuclear factor isolated from T cells
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	14,314 Da
OMIM	603148
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for ATF-3 elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. anti-Human ATF-3 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human ATF-3 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human ATF-3 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human ATF-3 can be calculated.
Other Notes	Small volumes of ATF-3 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.
Searchable Terms for ATF-3 purchase	MBS761520 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Activating Transcription Factor 3 (ATF-3) 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 ATF-3. The ELISA analytical biochemical technique of the MBS761520 kit is based on ATF-3 antibody-ATF-3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ATF-3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ATF-3. 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(%).

Typical Data & Standard Curve

Results of a typical standard run of a Human ATF-3 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.156	0.313	0.625	1.25	2.5	5	10
Y	OD450	0.081	0.128	0.162	0.257	0.469	0.832	1.506	2.023

Typical Testing Data of ATF-3 elisa kit



Typical Standard Curve of ATF-3 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATF-3. It may not necessarily be applicable to this product.

NCBI GI #	442422
NCBI GeneID	467
NCBI Accession #	AAA20506.1
UniProt Secondary Accession #	Q5VTZ2; Q6ICQ9; Q7Z566; Q8WYM6
UniProt Related Accession #	P18847
NCBI Official Full Name	activating transcription factor 3
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
NCBI Summary for ATF-3	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 ATF-3	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: nucleolus; nucleoplasm; nucleus Molecular Function: identical protein binding; protein binding; protein heterodimerization activity; protein homodimerization activity; transcription corepressor activity; transcription factor activity Biological Process: cellular protein metabolic process; cellular response to amino acid starvation; gluconeogenesis; negative regulation of transcription from RNA polymerase II promoter; positive regulation of cell proliferation; positive regulation of transcription from RNA polymerase II promoter; transcription from RNA polymerase II promoter; unfolded protein response
Research Articles on ATF-3	**1.** Taken together, these results suggest that ATF3 promotes the progression of human gliomas
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/atf-3-human-elisa-kits/activating-transcription-factor-3/761520