ATF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATF1, Polyclonal Antibody
Full Product Name	ATF1 Rabbit pAb
Product Gene Name	anti-ATF1 antibody
Product Synonym Names	TREB36; EWS-ATF1; FUS/ATF-1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	27-36kDa
OMIM	123803
3D Structure	ModBase 3D Structure for P18846
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-210 of human ATF1 (NP_005162.1).
Cellular Localization	Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ATF1 antibody	Western Blot (WB)
Application Notes for anti-ATF1 antibody	WB: 1:500-1:2000
Related Product Information for anti-ATF1 antibody	This protein binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Binds to the Tax-responsive element (TRE) of HTLV-I. Mediates PKA-induced stimulation of CRE-reporter genes. Represses the expression of FTH1 and other antioxidant detoxification genes. Triggers cell proliferation and transformation.
Other Notes	Small volumes of anti-ATF1 antibody 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 ATF1 purchase	MBS8545793 is an antibody targeting ATF1. Also known as ATF1 Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATF1. It may not necessarily be applicable to this product.

NCBI GI #	4885073
NCBI GeneID	466

NCBI Accession #	NP_005162.1
UniProt Primary Accession #	P18846
UniProt Related Accession #	P18846
GenBank Nucleotide #	NP_005162.1
NCBI Official Full Name	cyclic AMP-dependent transcription factor ATF-1
NCBI Official Synonym Full Names	activating transcription factor 1
NCBI Official Symbol	ATF1
NCBI Official Synonym Symbols	TREB36; EWS-ATF1; FUS/ATF-1
UniProt Protein Name	Cyclic AMP-dependent transcription factor ATF-1
UniProt Synonym Protein Names	Activating transcription factor 1; Protein TREB36
Protein Family	Alcohol O-acetyltransferase
UniProt Gene Name	ATF1
UniProt Synonym Gene Names	cAMP-dependent transcription factor ATF-1
UniProt Entry Name	ATF1_HUMAN
NCBI Protein Information	cyclic AMP-dependent transcription factor ATF-1
NCBI Summary for ATF1	This gene encodes an activating transcription factor, which belongs to the ATF subfamily and bZIP (basic-region leucine zipper) family. It influences cellular physiologic processes by regulating the expression of downstream target genes, which are related to growth, survival, and other cellular activities. This protein is phosphorylated at serine 63 in its kinase-inducible domain by serine/threonine kinases, cAMP-dependent protein kinase A, calmodulin-dependent protein kinase I/II, mitogen- and stress-activated protein kinase and cyclin-dependent kinase 3 (cdk-3). Its phosphorylation enhances its transactivation and transcriptional activities, and enhances cell transformation. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in angiomatoid fibrous histiocytoma and clear cell sarcoma. This gene has a pseudogene on chromosome 6. [provided by RefSeq, Aug 2010]
UniProt Comments for ATF1	ATF-1: a transcription factor that is a member of the leucine zipper family. Forms a homodimer or heterodimer with c-Jun and stimulates CRE-dependent transcription. Binds the Tax-responsive element (TRE) of HTLV-I. Activated downstream of IL-1. c-Src and TRAF6 are mediators of IL-1-induced AP-1 activation. Plays an important role in the trans-activation of the MHC class II trans-activator (CIITA) promoter III in B cells. Protein type: Transcription factor Chromosomal Location of Human Ortholog: 12q13 Cellular Component: nucleoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; protein heterodimerization activity; protein complex binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; nerve growth factor receptor signaling pathway; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; toll-like receptor 3 signaling pathway; response to organic cyclic substance; 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; cellular protein complex assembly; response to cobalt ion; toll-like receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway; positive regulation of DNA replication
Research Articles on ATF1	**1.** carcinogenic role of lncRNA RP11-552M11.4 in CC was mediated through miR-3941/ATF1 axis

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