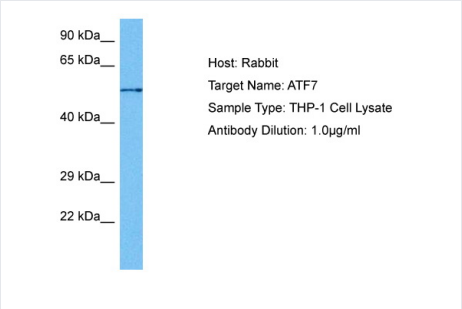
ATF7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATF7, Polyclonal Antibody
Full Product Name	ATF7 Antibody - middle region
Product Gene Name	anti-ATF7 antibody
Product Synonym Gene Name	ATFA
Immunogen Sequence	Synthetic peptide located within the following region: QILIQHPDAP SPAQPQVSPA QPTPSTGGRR RRTVDEDPDE RRQRFLERNR
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	ATF7 peptide (MBS3247971) is used for blocking the activity of ATF7 antibody (MBS3223328)
Molecular Weight	54 kDa
OMIM	606371
3D Structure	ModBase 3D Structure for P17544
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human ATF7
Product Categories/Family for anti-ATF7 antibody	Polyclonal; Transcription Regulation; Signaling Intermediate
Applications Tested/Suitable for anti-ATF7 antibody	Western Blot (WB)
Related Product Information for anti-ATF7 antibody	Plays important functions in early cell signaling. Binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AG][AG]-3'), a sequence present in many viral and cellular promoters. Activator of the NF-ELAM1/delta-A site of the E-selectin promoter. Has no intrinsic transcriptional activity, but activates transcription on formation of JUN or FOS heterodimers. Also can bind TRE promoter sequences when heterodimerized with members of the JUN family. Isoform 4 acts as a dominant repressor of the E-selectin/NF-ELAM1/delta-A promoter. Isoform 5 acts as a negative regulator, inhibiting both ATF2 and ATF7 transcriptional activities. It may exert these effects by sequestrating in the cytoplasm the Thr-53 phosphorylating kinase, preventing activation.
Other Notes	Small volumes of anti-ATF7 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 ATF7 purchase	MBS3223328 is an antibody targeting ATF7. Also known as ATF7 Antibody - middle region. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ATF7 antibody
Host: RabbitTarget Name: ATF7Sample Tissue: Human THP-1 Whole Cell lysatesAntibody Dilution: 1ug/ml

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATF7. It may not necessarily be applicable to this product.

NCBI GI #	194239643
NCBI GeneID	11016
NCBI Accession #	NP_001123532.1
UniProt Primary Accession #	P17544
UniProt Related Accession #	P17544
GenBank Nucleotide #	NM_001130060.1
NCBI Official Full Name	cyclic AMP-dependent transcription factor ATF-7 isoform 3
NCBI Official Synonym Full Names	activating transcription factor 7
NCBI Official Symbol	ATF7
NCBI Official Synonym Symbols	ATFA
UniProt Protein Name	Cyclic AMP-dependent transcription factor ATF-7
UniProt Synonym Protein Names	Activating transcription factor 7; Transcription factor ATF-A
Protein Family	Cyclic AMP-dependent transcription factor
UniProt Gene Name	ATF7
UniProt Synonym Gene Names	ATFA; cAMP-dependent transcription factor ATF-7
UniProt Entry Name	ATF7_HUMAN
NCBI Protein Information	cyclic AMP-dependent transcription factor ATF-7

UniProt Comments for ATF7	ATF7: Plays important functions in early cell signaling. Binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AG][AG]- 3'), a sequence present in many viral and cellular promoters. Activator of the NF-ELAM1/delta-A site of the E-selectin promoter. Has no intrinsic transcriptional activity, but activates transcription on formation of JUN or FOS heterodimers. Also can bind TRE promoter sequences when heterodimerized with members of the JUN family. Belongs to the bZIP family. 6 isoforms of the human protein are produced by alternative splicing. Protein type: C2H2-type zinc finger protein; Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 12q13 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: protein binding; enzyme binding; sequence-specific DNA binding; metal ion binding; mitogen-activated protein kinase binding; transcription factor binding; transcription factor activity Biological Process: transcription, DNA-dependent; regulation of transcription, DNA-dependent; viral reproduction; negative regulation of transcription from RNA polymerase II promoter
Research Articles on ATF7	**1.** ATF7 is a direct target of miR-103a-3p. In a stomach cancer cohort,miR-103a-3p expression was inversely correlated with ATF7 expression. Silencing ATF7 showed similar cellular and molecular effects as miR-103a-3p overexpression, namely, increased GC cell proliferation, improved CDK2 expression and decreased P27 expression.
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