abcam

Product datasheet

Anti-ATF7 antibody ab87844

2 Images

Overview

Product name	Anti-ATF7 antibody
Description	Rabbit polyclonal to ATF7
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Human
	Predicted to work with: Mouse, Rat, Horse, Cow, Dog, Pig, Chimpanzee, Rhesus monkey, Gorilla, Chinese hamster, Orangutan, Elephant
Immunogen	Synthetic peptide corresponding to a region within the C terminal amino acids 444-494 (ATAPSNGLSV RSAAEAVATS VLTQMASQRT ELSMPIQSHV IMTPQSQSAG R) of human ATF7 (CAA40483.1).
	Run BLAST with ExPASy **Run BLAST with** NCBI
Positive control	HeLa whole cell lysate
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.
	If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7
	Preservative: 0.09% Sodium azide
	Constituent: Tris citrate/phosphate
Purity	Immunogen affinity purified
Purification notes	Affinity purified using an epitope specific to ATF7 immobilized on solid support.
Clonality	Polyclonal

Isotype	IgG

Applications

The Abpromise guarantee   Our **Abpromise guarantee** covers the use of ab87844 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 53 kDa.
IP		Use at 10-15 µg/mg of lysate.

Target

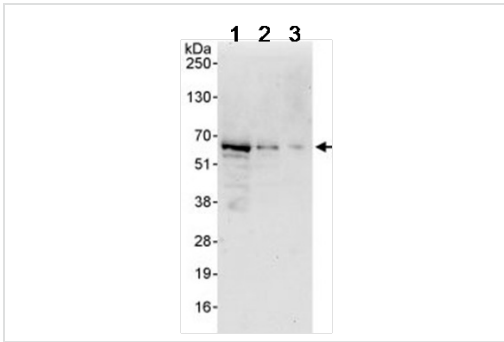|	
Function	Plays important functions in early cell signaling. Binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AG][AG]-3'), a sequence present in many viral and cellular promoters. Activator of the NF-ELAM1/delta-A site of the E-selectin promoter. Has no intrinsic transcriptional activity, 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/ATF-A0 acts as a dominant repressor of the E-selectin/NF-ELAM1/delta-A promoter.
Tissue specificity	Expressed in heart, lung and skeletal muscle. Isoform 4 is expressed in various tissues including heart, brain, placenta, lung and skeletal muscle. Highest levels in skeletal muscle. Lowest in lung and placenta.
Sequence similarities	Belongs to the bZIP family. Contains 1 bZIP domain. Contains 1 C2H2-type zinc finger.
Post-translational modifications	On EGF stimulation, phosphorylated first on Thr-53 allowing subsequent phosphorylation on Thr-51. This latter phosphorylation prevents sumoylation, increases binding to TAF12 and enhances transcriptional activity. Sumoylation delays nuclear localization and inhibits transactivation activity through preventing binding to TAF12. RANBP2 appears to be the specific E3 ligase.
Cellular localization	Nucleus. Nucleus > nucleoplasm. Mainly nucleoplasmic. Restricted distribution to the perinuculear region. The sumoylated form locates to the nuclear periphery.

Images

Western blot - Anti-ATF7 antibody (ab87844)

All lanes : Anti-ATF7 antibody (ab87844) at 0.1 µg/ml

Lane 1 : HeLa whole cell lysate at 50 µg
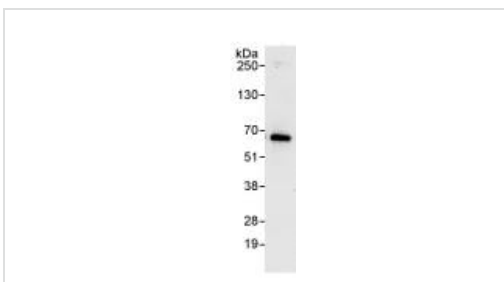
Lane 2 : HeLa whole cell lysate at 15 µg

Lane 3 : HeLa whole cell lysate at 5 µg

Developed using the ECL technique.

Predicted band size: 53 kDa

Observed band size: 63 kDa

Exposure time: 30 seconds

Immunoprecipitation - Anti-ATF7 antibody (ab87844)

Detection of human ATF7 by Immunoprecipitation from HeLa whole cell lysate (1 mg for IP, 20% of IP loaded), using ab87844 at 10 µg/mg lysate for IP. Subsequent Western blot detection used ab87844 at 1 µg/ml.

Developed using the ECL technique, with an exposure time of 10 seconds.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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