


Product datasheet

Anti-ATF7 antibody ab123046

1 Image

Overview

<b>Product name</b>	Anti-ATF7 antibody
<b>Description</b>	Rabbit polyclonal to ATF7
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Rat <b>Predicted to work with:</b> Mouse, Rabbit, Horse, Chicken, Guinea pig, Cow, Cat, Dog, Human
	
<b>Immunogen</b>	Synthetic peptide corresponding to a region within C terminal amino acids 397-446 (HKDCPVTALQ KKTQGYLESP KESSEPTGSP APVIQHSSAT APSNGLSVRS) of Rat ATF7 (NP_001101585). <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	Rat lung lysate.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	Constituents: 97% PBS, 2% Sucrose
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab123046** in the following tested applications.

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

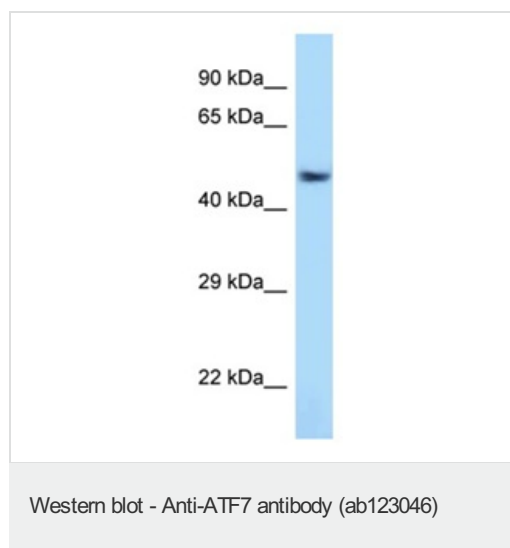
Application	Abreviews	Notes
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Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 52 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	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.
<b>Sequence similarities</b>	Belongs to the bZIP family. Contains 1 bZIP domain. Contains 1 C2H2-type zinc finger.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Nucleus. Nucleus > nucleoplasm. Mainly nucleoplasmic. Restricted distribution to the perinuclear region. The sumoylated form locates to the nuclear periphery.

## Images



Anti-ATF7 antibody (ab123046) at 1 µg/ml +

Rat lung lysate at 10 µg

**Predicted band size: 52 kDa**

Gel concentration: 12%

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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