abcam

Product datasheet

Anti-ATF7 antibody ab123046

1 Image

Overview

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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	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
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

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
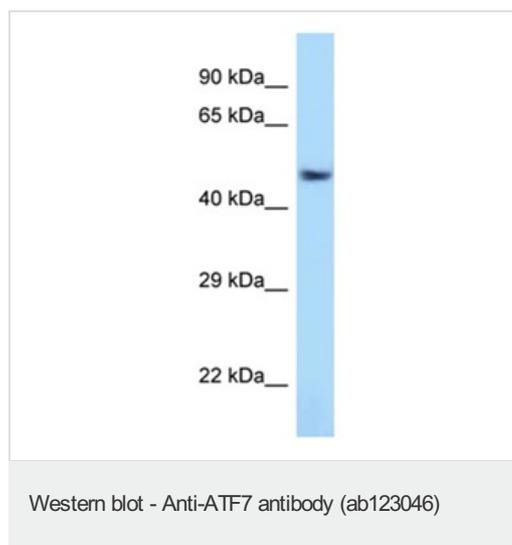
Anti-ATF7 antibody (ab123046) at 1 µg/ml + Rat lung lysate at 10 µg

Predicted band size: 52 kDa

Gel concentration: 12%

Western blot - Anti-ATF7 antibody (ab123046)

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- We investigate all quality concerns to ensure our products perform to the highest standards

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