

Product datasheet

Recombinant Human ATF7 protein ab161243

1 Image

Overview

Product name	Recombinant Human ATF7 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human

Sequence	<p>MGDDRRPFVCNAPGCGQRFTNEDHLAVHKHKHEMTLK FGPARTDSVIADQ TPTPTRFLKNCEEVGLFNELASSFEHEFKKAADEDEK KAAAGPLDMSLPS TPDIKIKEEEPVEVDSSPPDSPASSPCSPPLKEKEVTP KPVLISTPTPTI VRPGSLPLHLGYDPLHPTLPSPSTSVITQAPPSNRQMGS PTGSLPLVMHLA NGQTMPVLPGPPVQMPSVISLARPVSMVPNIPGIPGPP VNSSGSISPSGH PIPSEAKMRLKATLTHQVSSINGGCGMVVGTASTMVTA RPEQSQILIQHP DAPSPAQPQVSPAQPTPSTGGRRRRRTVDEDPDERRQ RFLERNRAAASRCR QKRKLWVSSLEKKAEEELTSQNIQLSNEVTLLRNEVAQL KQLLLAHKDCPV TALQKKTQGYLESPKESSEPTGSPAPVIQHSSATAPS NGLSVRSAAEAVA TSVLTQMASQRTELSMPIQSHVIMTPQSQSAGR</p>
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Amino acids	1 to 483
Tags	proprietary tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab161243** in the following tested applications.

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

Applications	Western blot ELISA
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

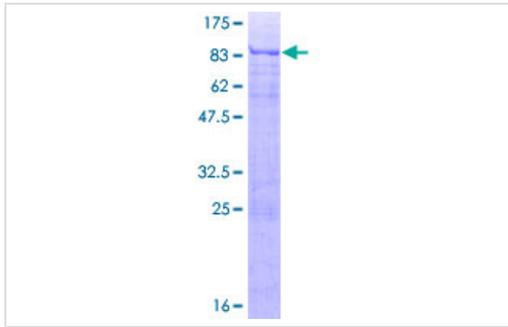
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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General Info

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 perinuclear region. The sumoylated form locates to the nuclear periphery.

Images



ab161243 on a 12.5% SDS-PAGE stained with Coomassie Blue.

SDS-PAGE - Recombinant Human ATF7 protein
(ab161243)

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