

Product datasheet

Human ATF6 protein fragment ab92267

1 Image

Overview

Product name Human ATF6 protein fragment
Protein length Protein fragment

Description

Nature Recombinant
Source Escherichia coli

Amino Acid Sequence

Species Human
Sequence YVVSFRRDHLLL PATTHNK TTRPKMSIVLPAININENVINGQDYEVMMQI
 DCQ
 VMDTRILHIKSSSVPPYLRDQQRNQTNTFFGSPPAATEATHVVST
 IPESLQ
Amino acids 567 to 670

Specifications

Our [Abpromise guarantee](#) covers the use of **ab92267** in the following tested applications.

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

Applications SDS-PAGE
Form Lyophilised

Preparation and Storage

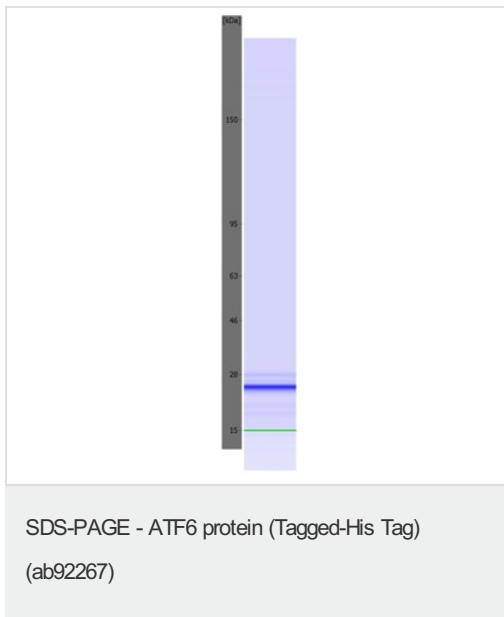
Stability and Storage Store at 4°C. Upon reconstitution store at -80°C.
 Preservative: None
 Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

Reconstitution reconstitution with 92 µl aqua dest.

General Info

Function	Transcription factor that acts during endoplasmic reticulum stress by activating unfolded protein response target genes. Binds DNA on the 5'-CCAC[GA]-3' half of the ER stress response element (ERSE) (5'-CCAAT-N(9)-CCAC[GA]-3') and of ERSE II (5'-ATTGG-N-CCACG-3'). Binding to ERSE requires binding of NF-Y to ERSE. Could also be involved in activation of transcription by the serum response factor.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP domain.
Domain	The basic domain functions as a nuclear localization signal. The basic leucine-zipper domain is sufficient for association with the NF-Y trimer and binding to ERSE.
Post-translational modifications	During unfolded protein response an approximative 50 kDa fragment containing the cytoplasmic transcription factor domain is released by proteolysis. The cleavage seems to be performed sequentially by site-1 and site-2 proteases. N-glycosylated. The glycosylation status may serve as a sensor for ER homeostasis, resulting in ATF6 activation to trigger the unfolded protein response (UPR). Phosphorylated in vitro by MAPK14/P38MAPK.
Cellular localization	Endoplasmic reticulum membrane and Nucleus. Under ER stress the cleaved N-terminal cytoplasmic domain translocates into the nucleus.

Images



The image shows an electrophoretic assay performed using an Agilent 5100 ALP. In some images colored control bands can be seen at 15 kDa (green) and/or 240 kDa (purple). The protein-specific band is blue.

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