

Product datasheet

Anti-ATF6 antibody - Carboxyterminal end ab62576

2 References 5 Images

Overview

<b>Product name</b>	Anti-ATF6 antibody - Carboxyterminal end
<b>Description</b>	Rabbit polyclonal to ATF6 - Carboxyterminal end
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab62576 only reacts with only ATF6 alpha.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, ICC, IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	A 16 amino acid peptide from near the carboxy terminus of human ATF6
<b>Positive control</b>	ICC/IF: MCF7 cells. WB: EL4 cell lysate. IHC-P: Human breast tissue.

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 +4°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.02% Sodium azide Constituent: PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab62576** in the following tested applications.

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

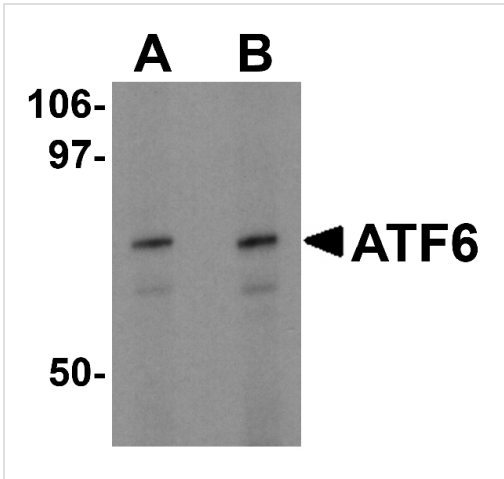
Application	Abreviews	Notes
ICC/IF		Use a concentration of 20 µg/ml.
ICC		Use a concentration of 10 µg/ml.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml.
WB		Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 75 kDa (predicted molecular weight: 75 kDa).

## Target

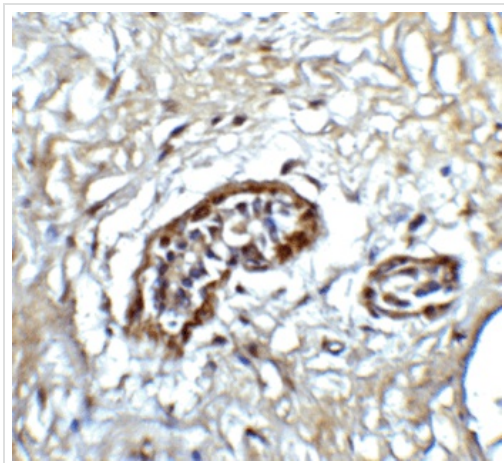
<b>Function</b>	Transcription factor that acts during endoplasmic reticulum stress by activating unfolded protein response target genes. Binds DNA on the 5'-CCAC[GA]-3'half of the ER stress response element (ERSE) (5'-CCAAT-N(9)-CCAC[GA]-3') and of ERSE II (5'-ATTGG-N-CCACG-3'). Binding to ERSE requires binding of NF-Y to ERSE. Could also be involved in activation of transcription by the serum response factor.
<b>Tissue specificity</b>	Ubiquitous.
<b>Sequence similarities</b>	Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP domain.
<b>Domain</b>	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.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Endoplasmic reticulum membrane and Nucleus. Under ER stress the cleaved N-terminal cytoplasmic domain translocates into the nucleus.

## Images



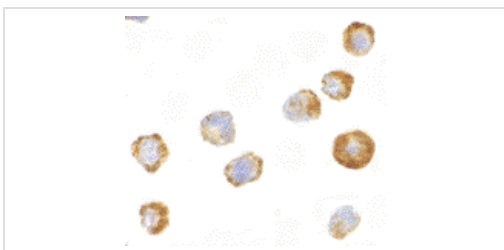
Western blot - Anti-ATF6 antibody - Carboxyterminal end (ab62576)

Western blot analysis of ATF6 in EL4 cell lysate with ATF6 antibody at (A) 0.5 and (B) 1 µg/mL.



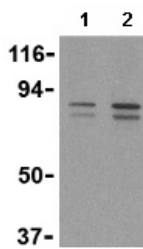
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATF6 antibody - Carboxyterminal end (ab62576)

Paraffin-embedded human breast tissue stained for ATF6 using ab62576 at 5 µg/ml in immunohistochemical analysis.



Immunocytochemistry - Anti-ATF6 antibody - Carboxyterminal end (ab62576)

ab62576 at 10µg/ml staining AFT6 in MCF7 cells by Immunocytochemistry.



Western blot - Anti-ATF6 antibody - Carboxyterminal end (ab62576)

**Lane 1** : Anti-ATF6 antibody - Carboxyterminal end (ab62576) at 0.5 µg/ml

**Lane 2** : Anti-ATF6 antibody - Carboxyterminal end (ab62576) at 1 µg/ml

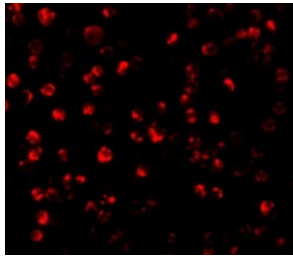
**All lanes** : MCF7 cell lysate

Lysates/proteins at 15 µg per lane.

**Predicted band size:** 75 kDa

**Observed band size:** 75 kDa

**Additional bands at:** 72 kDa. We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Anti-ATF6 antibody - Carboxyterminal end (ab62576)

Immunofluorescence of ATF6 in MCF7 cells using ab62576 at 10 µg/ml.

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