

## Product datasheet

# Anti-ATF2 antibody [E242] ab32061

Recombinant RabMAb

[1 References](#) [3 Images](#)

### Overview

<b>Product name</b>	Anti-ATF2 antibody [E242]
<b>Description</b>	Rabbit monoclonal [E242] to ATF2
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab32061 recognises ATF-2 (activating transcription factor-2, CRE-BP1). It does not cross-react with other ATF family members
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, IP <b>Unsuitable for:</b> Flow Cyt or ICC
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide within Human ATF2 aa 50-150 (N terminal). The exact sequence is proprietary.
<b>Positive control</b>	WB: HeLa whole cell lysate; IHC-P: Human lung cancer.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	E242
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab32061 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

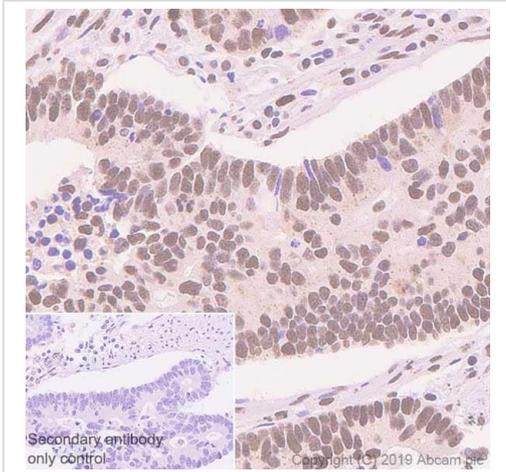
Application	Abreviews	Notes
<b>WB</b>		1/10000. Detects a band of approximately 70 kDa (predicted molecular weight: 54 kDa).
<b>IHC-P</b>		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
<b>IP</b>		1/30.

**Application notes** Is unsuitable for Flow Cyt or ICC.

## Target

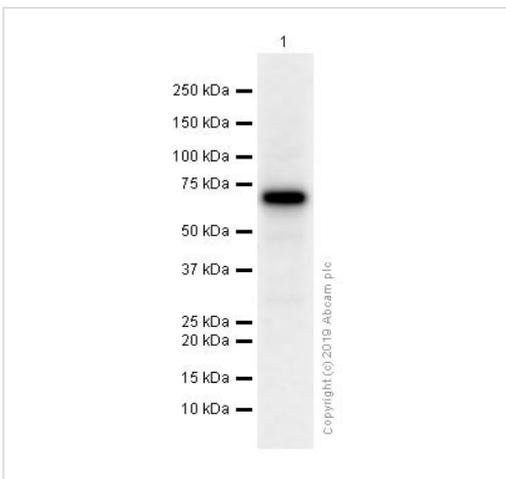
<b>Function</b>	Transcriptional activator, probably constitutive, which binds to the cAMP-responsive element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Interaction with JUN redirects JUN to bind to CREs preferentially over the 12-O-tetradecanoylphorbol-13-acetate response elements (TREs) as part of an ATF2/JUN complex.
<b>Tissue specificity</b>	Abundant expression seen in the brain.
<b>Sequence similarities</b>	Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP domain. Contains 1 C2H2-type zinc finger.
<b>Post-translational modifications</b>	Phosphorylation of Thr-69 and Thr-71 by MAPK14 causes increased transcriptional activity. Also phosphorylated and activated by JNK.
<b>Cellular localization</b>	Nucleus.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATF2 antibody [E242] (ab32061)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung cancer tissue labeling ATF2 with ab32061 at 1/100 dilution (2.55 µg/mL). Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9 (epitope retrieval solution 2). Positive staining on lung cancer. The section was incubated with ab32061 for 30 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument and visualised using ab209101, Rabbit specific IHC polymer detection kit HRP/DAB. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Western blot - Anti-ATF2 antibody [E242] (ab32061)

Anti-ATF2 antibody [E242] (ab32061) at 1/10000 dilution + HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

**Secondary**

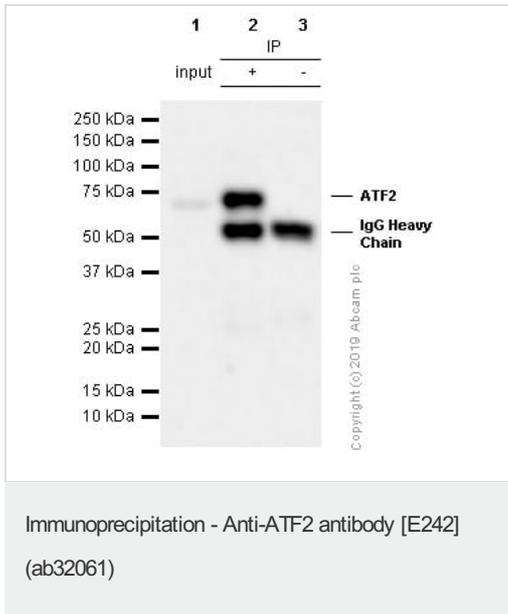
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size:** 54 kDa

**Observed band size:** 70 kDa

**Exposure time:** 90 seconds

**Blocking buffer and concentration:** 5% NFDm/TBST



ab32061 (purified) at 1/30 dilution immunoprecipitating ATF2 in HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate.

Lane 1 (input): HeLa whole cell lysate 10µg

Lane 2 (+): ab32061 + HeLa whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab32061 in HeLa whole cell lysate

For western blotting, ab32061 at 1/500 and VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used for detection at 1/1000 dilution.

Blocking and diluting buffer: 5% NFDm/TBST.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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