

Anti-ATF2 antibody [E242] - BSA and Azide free ab284666

Recombinant RabMAb

4 Images

Overview

Product name	Anti-ATF2 antibody [E242] - BSA and Azide free
Description	Rabbit monoclonal [E242] to ATF2 - BSA and Azide free
Host species	Rabbit
Specificity	ab284666 recognises ATF-2 (activating transcription factor-2, CRE-BP1). It does not cross-react with other ATF family members
Tested applications	Suitable for: WB, IHC-P, IP Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa whole cell lysate; IHC-P: Human lung cancer.
General notes	ab284666 is the carrier-free version of ab32061

Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.2 Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	E242
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab284666 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 at an assay dependent concentration. Predicted molecular weight: 55 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

Function	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.
Tissue specificity	Abundant expression seen in the brain.
Sequence similarities	Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP domain. Contains 1 C2H2-type zinc finger.

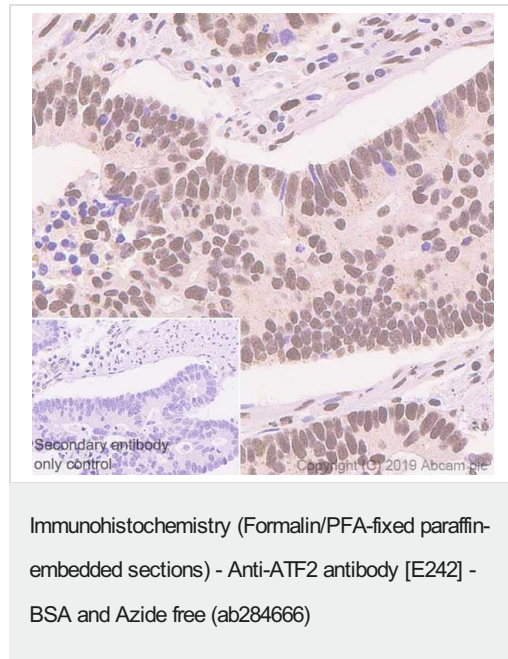
**Post-translational
modifications**

Phosphorylation of Thr-69 and Thr-71 by MAPK14 causes increased transcriptional activity. Also phosphorylated and activated by JNK.

Cellular localization

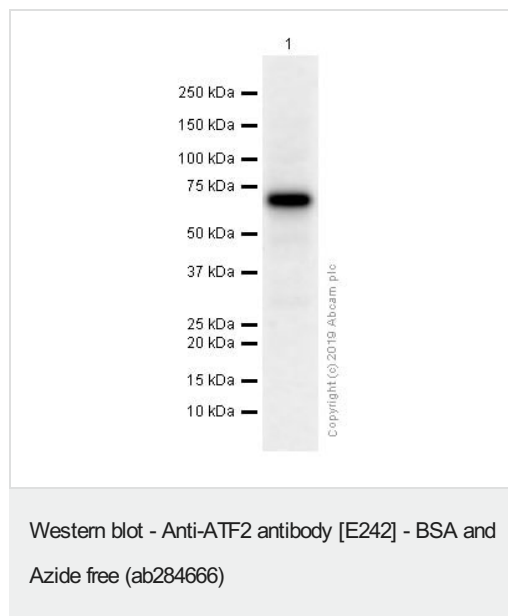
Nucleus.

Images



This data was developed using [ab32061](#) the same antibody clone in a different buffer formulation.

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.



Anti-ATF2 antibody [E242] ([ab32061](#)) at 1/1000 dilution + HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Secondary

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

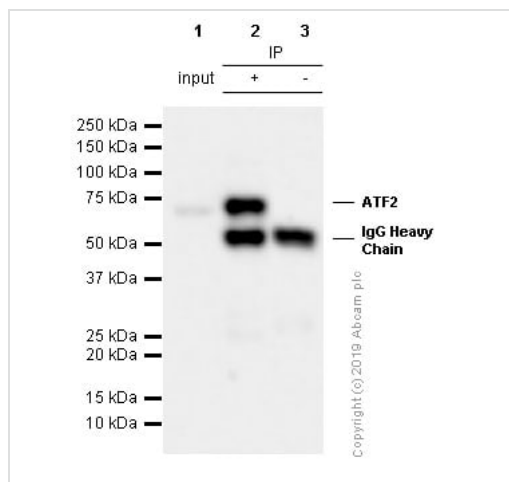
Predicted band size: 55 kDa

Observed band size: 70 kDa

Exposure time: 90 seconds

This data was developed using [ab32061](#), the same antibody clone in a different buffer formulation.

Blocking buffer and concentration: 5% NFDM/TBST



Immunoprecipitation - Anti-ATF2 antibody [E242] - BSA and Azide free (ab284666)

This data was developed using **ab32061** the same antibody clone in a different buffer formulation.

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.

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

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

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