**Product datasheet**

**Anti-ATF2 antibody [E242] ab32061**

**RabMAb**

1 References  3 Images

### Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-ATF2 antibody [E242]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit monoclonal [E242] to ATF2</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Specificity</td>
<td>ab32061 recognises ATF-2 (activating transcription factor-2, CRE-BP1). It does not cross-react with other ATF family members</td>
</tr>
</tbody>
</table>
| Tested applications| Suitable for: WB, IHC-P, IP  
Unsuitable for: Flow Cyt or ICC |
| Species reactivity | Reacts with: Human        |
| Immunogen          | Synthetic peptide within Human ATF2 aa 50-150 (N terminal). The exact sequence is proprietary. |
| Positive control   | HeLa whole cell lysate (ab150035) and human carcinoma |
| General notes      | A trial size is available to purchase for this antibody.  
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.  
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents. |

### Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.</td>
</tr>
</tbody>
</table>
| Storage buffer     | pH: 7.20  
Preservative: 0.01% Sodium azide  
Constituents: 49% PBS, 50% Glycerol, 0.05% BSA |
| Purity             | IgG fraction |
| Clonality          | Monoclonal |
| Clone number       | E242    |
| Isotype            | IgG     |
Applications

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>1/10000</td>
<td>Detects a band of approximately 70 kDa (predicted molecular weight: 54 kDa).</td>
</tr>
<tr>
<td>IHC-P</td>
<td>1/100</td>
<td>Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
</tr>
<tr>
<td>IP</td>
<td>1/50</td>
<td></td>
</tr>
</tbody>
</table>

Application notes

Is unsuitable for Flow Cyt or ICC.

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

ab32061 (purified) at 1/500 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, VeriBlot for IP Detection Reagent (HRP) (ab131366) was used for detection at 1/1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.
**Western blot** - Anti-ATF2 antibody [E242] (ab32061)

Anti-ATF2 antibody [E242] (ab32061) at 1/10000 dilution + HeLa cell lysate

**Predicted band size:** 54 kDa

**Observed band size:** 70 kDa  
*why is the actual band size different from the predicted?*

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

Immunohistochemical analysis of paraffin-embedded human carcinoma using ab32061 at a dilution of 1/50

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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

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