Product datasheet

Anti-ATF1 (phospho S63) antibody [EP1591(2)Y] ab76085

RabMAb

Overview

Product name: Anti-ATF1 (phospho S63) antibody [EP1591(2)Y]
Description: Rabbit monoclonal [EP1591(2)Y] to ATF1 (phospho S63)
Host species: Rabbit
Specificity: ab76085 detects ATF1 when phosphorylated at serine 63
Tested applications:
- Suitable for: ELISA, WB, IHC-P, ICC
- Unsuitable for: Flow Cyt or IP
Species reactivity: Reacts with: Mouse, Rat, Human
Immunogen: A phospho specific peptide corresponding to residues surrounding serine 63 of human ATF1
Positive control:
- WB: HeLa whole cell lysate (ab150035)
- IHC-P: human breast carcinoma
General notes: A trial size is available to purchase for this antibody. 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

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer:
- pH: 7.20
- Preservative: 0.05% Sodium azide
- Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant
Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: EP1591(2)Y
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab76085 in the following tested applications.
Application notes

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

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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 22052915</td>
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<tr>
<td>IHC-P</td>
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<td>1/100 - 1/250.</td>
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<tr>
<td>ICC</td>
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<td>1/100 - 1/250.</td>
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Target

Function

This protein binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Binds to the Tax-responsive element (TRE) of HTLV-I. Mediates PKA-induced stimulation of CRE-reporter genes.

Involvement in disease

Defects in ATF1 may be a cause of angiomatoid fibrous histiocytoma (AFH) [MIM:612160]. A distinct variant of malignant fibrous histiocytoma that typically occurs in children and adolescents and is manifest by nodular subcutaneous growth. Characteristic microscopic features include lobulated sheets of histiocyte-like cells intimately associated with areas of hemorrhage and cystic pseudovascular spaces, as well as a striking cuffing of inflammatory cells, mimicking a lymph node metastasis. Note=Chromosomal aberrations involving ATF1 are found in patients with angiomatoid fibrous histiocytoma. Translocation t(12;16)(q13;p11.2) with FUS generates a chimeric ATF1/FUS protein. Translocation t(12;22)(q13;q12) with EWSR1 generates a chimeric ATF1/EWSR1 protein.

Sequence similarities

Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP domain. Contains 1 KID (kinase-inducible) domain.

Cellular localization

Nucleus.

Images
Western blot - Anti-ATF1 (phospho S63) antibody [EP1591(2)Y] (ab76085) 

All lanes: Anti-ATF1 (phospho S63) antibody [EP1591(2)Y] (ab76085) at 1/100000 dilution

Lane 1: HeLa cell lysate (untreated)
Lane 2: HeLa cell lysate, treated with Lambda Phosphatase

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: goat antirabbit HRP labelled IgG at 1/2000 dilution

Predicted band size: 29 kDa
Observed band size: 29 kDa

Immunohistochemical analysis of ATF1 in paraffin embedded human breast carcinoma tissue, using ab76085 at a 1/100 dilution.

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

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- We investigate all quality concerns to ensure our products perform to the highest standards

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