


Product datasheet

Anti-ATF1 antibody ab78903

2 Images

Overview

<b>Product name</b>	Anti-ATF1 antibody
<b>Description</b>	Rabbit polyclonal to ATF1
<b>Host species</b>	Rabbit
<b>Specificity</b>	Detects endogenous levels of total ATF1 protein.
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Synthetic non-phosphopeptide derived from human ATF1 around the phosphorylation site of serine 63 (R-P-S <sup>P</sup> -Y-R)
<b>Positive control</b>	Human lung carcinoma tissue COLO cell extract

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>	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 150mM Sodium chloride, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab78903** 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
ELISA		1/5000.
WB		1/500 - 1/1000. Predicted molecular weight: 29 kDa.
IHC-P		1/50 - 1/100.

## 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.

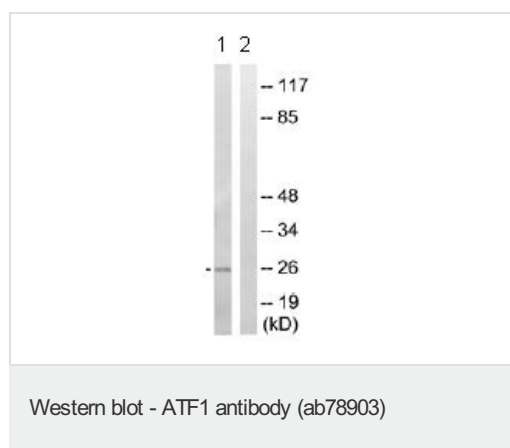
### Sequence similarities

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

### Cellular localization

Nucleus.

## Images



**All lanes** : Anti-ATF1 antibody (ab78903) at 1/500 dilution

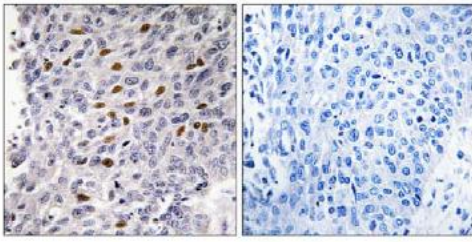
**Lane 1** : COLO cell extract

**Lane 2** : COLO cell extract with immunising peptide at 10 µg

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 29 kDa

**Observed band size:** 26 kDa



Peptide - +

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - ATF1 antibody (ab78903)

Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue using ab78903, at 1/50 dilution. Right panel was also treated with immunising peptide.

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