

Datasheet for ABIN129602

**anti-ATF3 antibody (Internal Region)**[Go to Product page](#)**2** Images**1** Publication

## Overview

Quantity:	100 µg
Target:	ATF3
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

## Product Details

Purpose:	ATF3 Antibody
Immunogen:	Immunogen: This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of human ATF3. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity-purified antibody is directed against human ATF3 and is useful in determining its presence in various assays including ELISA and western blotting. This polyclonal antibody recognizes over-expressed ATF3 protein found in various expression systems.
Characteristics:	Synonyms: rabbit anti-ATF3 Antibody, ATF 3, Cyclic AMP-dependent transcription factor ATF-3, cAMP-dependent transcription factor ATF-3, Activating transcription factor 3
Purification:	Affinity purified antibody
Sterility:	Sterile filtered

## Target Details

Target:	ATF3
Alternative Name:	ATF3 ( <a href="#">ATF3 Products</a> )
Background:	<p>Background: ATF3, or Activating Transcription Factor 3, is a member of mammalian activation TF/CREB protein family of transcription factors. ATF3 binds the cAMP response element (cre) (consensus: 5'-gtgacgt[ac][ag]-3'), a sequence present in many viral and cellular promoters. However, ATF3 represses rather than activates transcription from promoters with ATF sites stabilizing inhibitory co-factors at the promoter. Alternate splicing forms of ATF3, called ATF3 delta Zip, lack the leucine zipper domain and do not bind DNA. ATF3 delta Zip stimulates transcription, presumably by sequestering inhibitory co-factors away from the promoter. Human ATF3 (SwissProt 18847) is a 20575 Da protein composed of 181 amino acids.</p>
Gene ID:	467
NCBI Accession:	<a href="#">NP_001025458</a>
UniProt:	<a href="#">P18847</a>
Pathways:	<a href="#">Myometrial Relaxation and Contraction</a> , <a href="#">ER-Nucleus Signaling</a> , <a href="#">Unfolded Protein Response</a>

## Application Details

Application Notes:	<p>Application Note: Affinity purified anti-ATF3 has been tested by ELISA and western blotting against recombinant forms of the protein. Although not tested, this antibody is likely function in most immunoassays including immunofluorescence microscopy, immunohistochemistry.</p> <p>Western Blot Dilution: 1:200 - 1:2000</p> <p>ELISA Dilution: 1:5,000 - 1:20,000</p> <p>Other: User Optimized</p>
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: None</p> <p>Preservative: 0.01 % (w/v) Sodium Azide</p>
Preservative:	Sodium azide

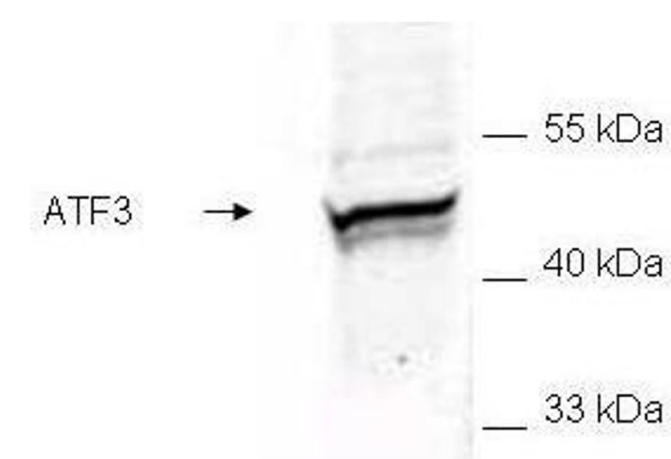
Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Publications

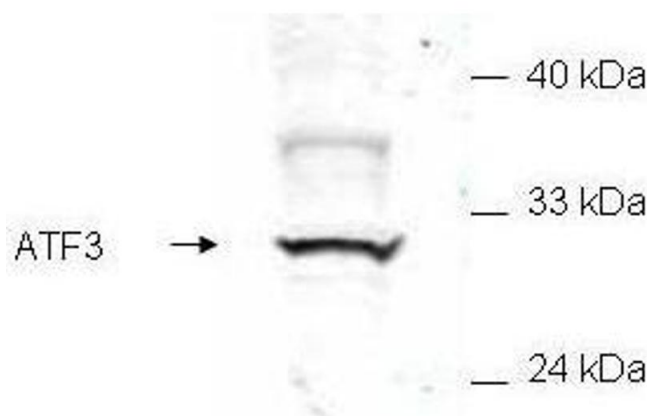
Product cited in:	Xie, Xu, Wu, Shen, Zhao, Du, Lv, Gu, Pan, Xu, Xie, Li: "Involvement of CYR61 and CTGF in the fascin-mediated proliferation and invasiveness of esophageal squamous cell carcinomas cells." in: <b>The American journal of pathology</b> , Vol. 176, Issue 2, pp. 939-51, (2010) ( <a href="#">PubMed</a> ).
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Images



Western Blotting

**Image 1.** Western blot of E.coli whole cell extract transfected with GST epitope tagged human ATF3. Affinity purified anti-ATF3 detects a band ~48 kDa corresponding to recombinant human ATF3. Immunostaining using anti-GST epitope tag antibody confirms the composition of the recombinant band (not shown). The protein was transferred to nitrocellulose using standard methods. After blocking with 5% goat serum and 0.5% non fat milk in PBS, the membrane was probed with the primary antibody diluted 1:200 in 0.2X blocking buffer in PBS overnight at 4°C. Reaction was followed by washes and reaction with a 1:5000 dilution of IRDye800 conjugated Gt-a-Rabbit IgG [H&L] (code 611-132-122) for 30 min at room temperature. LICOR's Infrared Imaging System was used to scan and process the image. Other detection systems will yield similar results.



#### Western Blotting

**Image 2.** Western blot of mammalian whole cell extract transfected with HA epitope tagged human ATF3. Affinity purified anti-ATF3 detects a band ~31 kDa corresponding to recombinant human ATF3. Immunostaining using anti-HA epitope tag antibody confirms the composition of the recombinant band (not shown). The protein was transferred to nitrocellulose in 30 minutes using standard methods. After blocking with 5% goat serum and 0.5% non-fat milk in PBS, the membrane was probed with the primary antibody diluted 1:200 in 0.2X blocking buffer in PBS overnight at 4°C. Reaction was followed by washes and reaction with a 1:5000 dilution of 800 conjugated Gt-a-Rabbit IgG [H&L] (code 611-132-122) for 30 min at room temperature. LICOR's Infrared Imaging System was used to scan and process the image. Other detection systems will yield similar results.