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Anti-ATF3 (RABBIT) Antibody
ATF3 Antibody
Catalog # ASR5259

Specification

Anti-ATF3 (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Human**
Reactivity	**Human**
Clonality	**Polyclonal**
Application	**WB, E, I, LCI**
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.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
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.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-ATF3 (RABBIT) Antibody - Additional Information

Gene ID 467

Other Names
467

Purity
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. Reactivity is observed against human ATF3. Cross reactivity with ATF3 from other mammalian sources has not been tested.

Storage Condition
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.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-ATF3 (RABBIT) Antibody - Protein Information

Name ATF3 {ECO:0000303|PubMed:7515060, ECO:0000312|HGNC:HGNC:785}

Function
This protein binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Represses transcription from promoters with ATF sites. It may repress transcription by stabilizing the binding of inhibitory cofactors at the promoter.

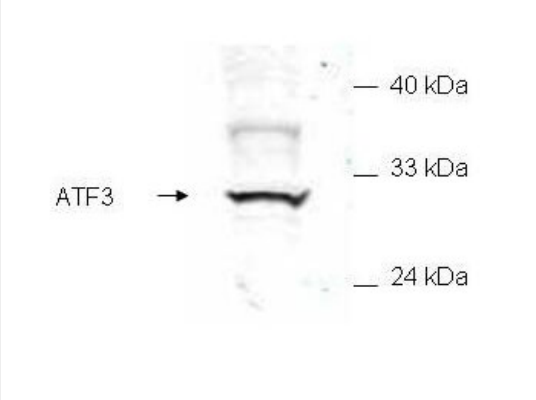
Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00978, ECO:0000269|PubMed:12034827}

Anti-ATF3 (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ATF3 (RABBIT) Antibody - Images



Western blot of mammalian whole cell extract transfected with HA epitope tagged human ATF3. Rockland's Affinity purified anti-ATF3 detects a band ~31 kDa corresponding to recombinant human ATF3. Immunostaining using Rockland's 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 IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] (code 611-132-122) for 30 min at room temperature. LICOR's Odyssey® Infrared Imaging System was used to scan and process the

image. Other detection systems will yield similar results.

Anti-ATF3 (RABBIT) Antibody - 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.