Leader in Biomolecular Solutions for Life Science



# ATF4 Rabbit pAb

Catalog No.: A18687 16 Publications

## **Basic Information**

Observed MW 50kDa

Calculated MW 39kDa

Category Primary antibody

Applications WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity Human, Mouse, Rat

## Background

This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication.

## **Recommended Dilutions**

WB	1:500 - 1:1000
IHC-P	1:100 - 1:500
IF/ICC	1:50 - 1:200
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

# **Gene ID** 468

Swiss Prot P18848

#### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

#### Synonyms

CREB2; TXREB; CREB-2; TAXREB67; ATF4

### Contact

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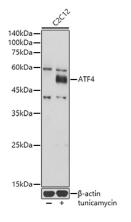
## **Product Information**

**Source** Rabbit **Isotype** IgG **Purification** Affinity purification

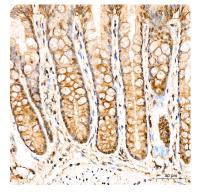
#### Storage

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

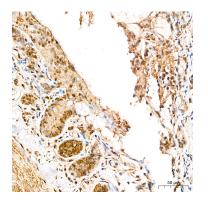
### **Validation Data**



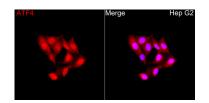
Western blot analysis of lysates from C2C12 cells, using ATF4 Rabbit pAb (A18687) at 1:500 dilution. C2C12 cells were treated with tunicamycin (2 µg/ml) for 8 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Immunohistochemistry analysis of paraffinembedded Mouse colon tissue using ATF4 Rabbit pAb (A18687) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Rat colon tissue using ATF4 Rabbit pAb (A18687) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of Hep G2 cells using ATF4 Rabbit pAb(A18687) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.