

For Research Use Only

# ATF4 Monoclonal antibody, PBS Only

Catalog Number: 60035-1-PBS



## Basic Information

**Catalog Number:**

60035-1-PBS

**Size:**

1 mg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG1279

**GenBank Accession Number:**

BC022088

**GeneID (NCBI):**

468

**UNIPROT ID:**

P18848

**Full Name:**

activating transcription factor 4 (tax-responsive enhancer element B67)

**Calculated MW:**

39 kDa

**Observed MW:**

45-50 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

3E4C5

## Applications

**Tested Applications:**

WB, Indirect ELISA, FC

**Species Specificity:**

human, mouse, rat

## Background Information

ATF4 is a transcription factor, that accumulates predominantly in osteoblasts, where it regulates terminal osteoblast differentiation and bone formation. As a basic leucine-zipper (bZip) transcription factor, ATF4 can regulate amino acid metabolism, cellular redox state, and anti-stress responses. It also regulates age-related and diet-induced obesity and glucose homeostasis in mammals, and has conserved metabolic functions in flies. Due to its location at chromosome 22q13, a region linked to schizophrenia, ATF4 is considered as a positional candidate gene for schizophrenia. Otherwise, since ATF4 is induced by tumour microenvironmental factors, and regulates processes relevant to cancer progression, it might serve as a potential therapeutic target in cancer. This antibody is a mouse monoclonal antibody raised against full length human ATF4 antigen. The antibody recognizes the 45-50 kDa ATF4 protein and its phosphorylated forms (50 kDa).

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS Only

For technical support and original validation data for this product please contact:

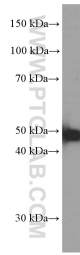
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

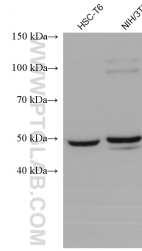
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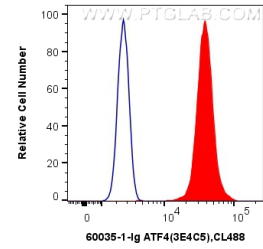
## Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 60035-1-Ig (ATF4 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60035-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 60035-1-Ig (ATF4 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60035-1-PBS in a different storage buffer formulation.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human ATF4 (60035-1-Ig, Clone:3E4C5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 60035-1-PBS in a different storage buffer formulation.