

# ATF3 Rabbit mAb

Catalog No.: A29230 **Recombinant**

## Basic Information

### Observed MW

23 kDa/24 kDa

### Calculated MW

12-21 kDa

### Category

Primary antibody

### Applications

WB,IP,IF/ICC,ChIP,ELISA

### Cross-Reactivity

Human, Mouse

### CloneNo number

ARC3869

## Background

This gene encodes a member of the mammalian activation transcription factor/cAMP responsive element-binding (CREB) protein family of transcription factors. This gene is induced by a variety of signals, including many of those encountered by cancer cells, and is involved in the complex process of cellular stress response. Multiple transcript variants encoding different isoforms have been found for this gene. It is possible that alternative splicing of this gene may be physiologically important in the regulation of target genes.

## Recommended Dilutions

**WB** 1:4000 - 1:10000

**IP** 0.5 µg - 4 µg antibody for  
200 µg - 400 µg extracts of  
whole cells

**IF/ICC** 1:200 - 1:600

**ChIP** 2 µg antibody for 10 µg - 15  
µg of Chromatin

**ELISA** Recommended starting  
concentration is 1 µg/mL.  
Please optimize the  
concentration based on your  
specific assay requirements.  
For high-ratio antibody  
dilutions ( $\geq 1:10000$ ) a  
sequential dilution method  
is strongly recommended to  
ensure measurement  
accuracy.

## Immunogen Information

### Gene ID

467

### Swiss Prot

P18847

### Immunogen

This information is considered to be commercially sensitive.

### Synonyms

ATF3

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Contact

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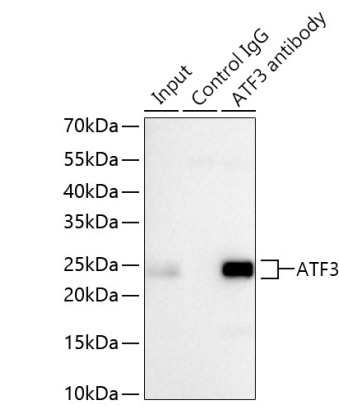
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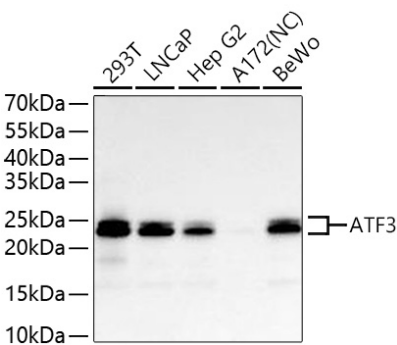
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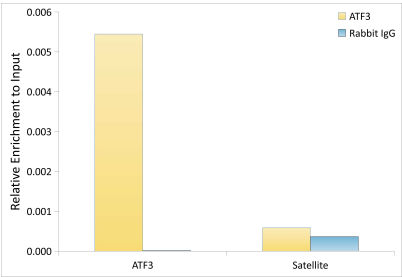
Validation Data



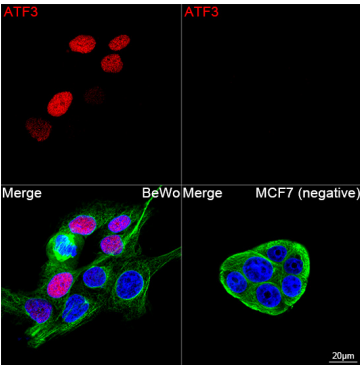
Immunoprecipitation of ATF3 from 300 µg extracts of 293T cells was performed using 1 µg of ATF3 Rabbit mAb (A29230). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using ATF3 Rabbit mAb (A29230) at a dilution of 1:1000.



Western blot analysis of various lysates using ATF3 Rabbit mAb (A29230) at 1:10000 dilution incubated overnight at 4°C.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Negative control (NC): A172.  
Exposure time: 60 s.



Chromatin immunoprecipitation was performed with 15 µg of cross-linked chromatin from HCT 116 cells, using 2 µg of ATF3 Rabbit mAb (A29230) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.



Confocal imaging of BeWo cells and MCF7 cells (negative) using ATF3 Rabbit mAb

## Validation Data

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(A29230, dilution 1:500) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.