For Research Use Only

# ATF5 Monoclonal antibody

Catalog Number:67066-1-Ig 3 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

## Basic Information

Catalog Number:
67066-1-Ig

Size:
2300 μg/ml

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG7214

GenBank Accession Number:
BC005174

GeneID (NCBI):
22809

UNIPROT ID:
Q9Y2D1

Full Name:
activating transcription factor 5

Calculated MW:
31 kDa

Observed MW:
30-35 kDa

Purification Method:
Protein A purification

CloneNo.:
1E5B6

Recommended Dilutions:
WB 1:2000-1:16000

## Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
Human

Cited Species:
human, chicken, mouse

Positive Controls:

WB : Jurkat cells, HeLa cells, HEK-293 cells, SH-SY5Y cells, A431 cells, HT-29 cells, MCF-7 cells, MDA-MB-231 cells, SK-BR-3 cells, T-47D cells

## Background Information

ATF5, also named as Activating transcription factor 5, is a 282 amino acid protein, which belongs to the bZIP family. ATF5 is Widely expressed with higher expression levels in liver. ATF5 is actively transported to the centrosome and accumulated in the pericentriolar material (PCM) during G1 to M phase via a microtubule-dependent mechanism. During late telophase and cytokinesis, it translocates from the centrosome to the midbody (PMID: 26213385) . ATF5 as a transcription factor that either stimulates or represses gene transcription through binding of different DNA regulatory elements such as cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), ATF5-specific response element (ARE) (consensus: 5'-C[CT]TCT[CT]CCTT[AT]-3') but also the amino acid response element (AARE), present in many viral and cellular promoters. Critically ATF5 is involved, often in a cell type-dependent manner, in cell survival, proliferation, and differentiation (PubMed:10373550, PubMed:15358120, PubMed:21212266, PubMed:20654631).

## Notable Publications

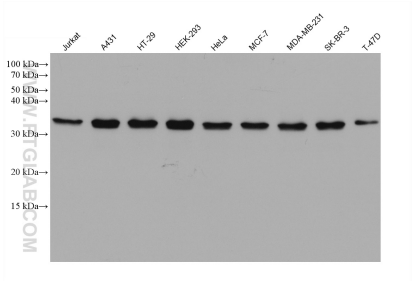
| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Kosei Yamashita | 36217717 | FEBS Open Bio | WB |
| Meiyu Cheng | 35163244 | Int J Mol Sci | WB |
| Ying Yang | 37748667 | Toxicol Lett | WB |

## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

## Selected Validation Data




Various lysates were subjected to SDS PAGE followed by western blot with 67066-1-Ig (ATF5 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.