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ATF6 Rabbit mAb

Catalog No.: A25317 Recombinant 3 Publications

Basic Information

Observed MW
90-100 kDa/50-60 kDa

Calculated MW
75 kDa

Category
Primary antibody

Applications
WB,IHC-P,IP,ChIP,ELISA

Cross-Reactivity
Human, Mouse

CloneNo number
ARC3252

Background

This gene encodes a transcription factor that activates target genes for the unfolded protein response (UPR) during endoplasmic reticulum (ER) stress. Although it is a transcription factor, this protein is unusual in that it is synthesized as a transmembrane protein that is embedded in the ER. It functions as an ER stress sensor/transducer, and following ER stress-induced proteolysis, it functions as a nuclear transcription factor via a cis-acting ER stress response element (ERSE) that is present in the promoters of genes encoding ER chaperones. This protein has been identified as a survival factor for quiescent but not proliferative squamous carcinoma cells. There have been conflicting reports about the association of polymorphisms in this gene with diabetes in different populations, but another polymorphism has been associated with increased plasma cholesterol levels. This gene is also thought to be a potential therapeutic target for cystic fibrosis.

Recommended Dilutions

WB	1:2000 - 1:6000
IHC-P	1:50 - 1:200
IP	0.5μg-4μg antibody for 400μg-600μg extracts of whole cells
ChIP	2μg antibody for 15μg-20μg of Chromatin
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
22926

Swiss Prot
P18850

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

Synonyms
ACHM7; ATF6A; ATF6

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

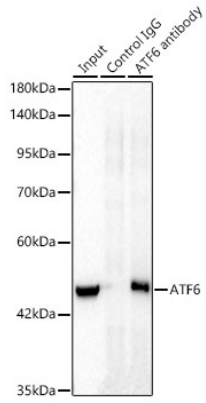
Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

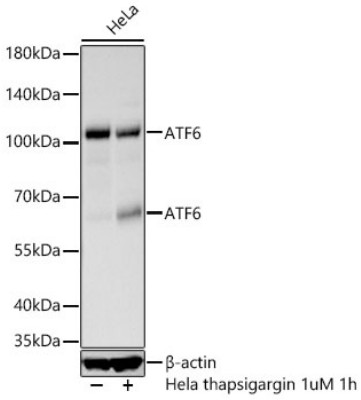
400-999-6126

cn.market@abclonal.com.cn

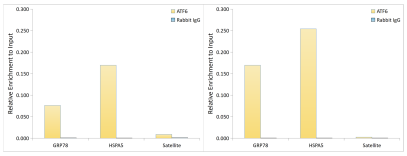
Validation Data



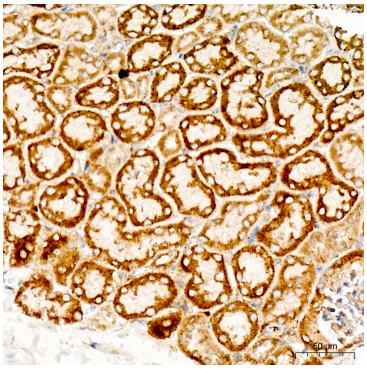
Immunoprecipitation of ATF6 from 500 µg extracts of HeLa cells was performed using 3 µg of ATF6 Rabbit mAb (A25317). Rabbit IgG isotype control(AC042) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using ATF6 Rabbit mAb (A25317) at a dilution of 1:1000.

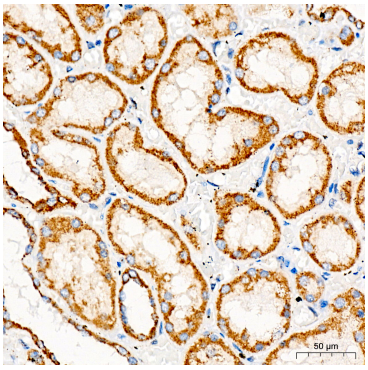


Western blot analysis of lysates from HeLa cells using ATF6 Rabbit mAb (A25317) at 1:5000 dilution incubated overnight at 4°C. HeLa cells were treated by tunicamycin (2 µg/ml) for 1 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020)
Exposure time: 90 s.

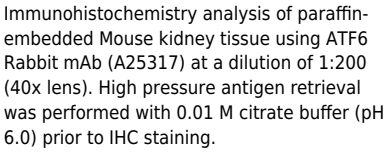


Chromatin immunoprecipitation was performed with 20 µg of cross-linked chromatin from HeLa cells (left) and HeLa cells treated by thapsigargin (1uM, 1h)(right), using 2 µg of ATF6 Rabbit mAb (A25317) and Rabbit IgG isotype control (AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.

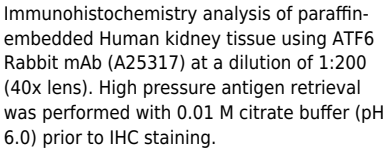




Validation Data



Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using ATF6 Rabbit mAb (A25317) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using ATF6 Rabbit mAb (A25317) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.