ATF6 Rabbit pAb

Catalog No.: A0202SP

46 Publications

Basic Information

Observed MW
90-100 kDa

Calculated MW
75 kDa

Category
Polyclonal Antibodies

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

Cross Reactivity
Human

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 1:5000 - 1:10000

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

IHC-P 1:200 - 1:800

ChIP
2 μg antibody for 5 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 (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
22926

Swiss-Prot
P18850

Immunogen
This information is considered to be commercially sensitive.

Synonyms
ACHM7; ATF6A; ATF6

Contact

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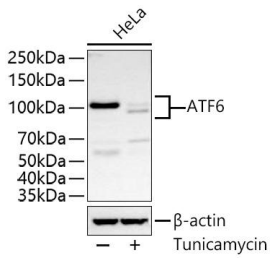
Product Information

Source	Isotype	Purity
Rabbit	IgG	Affinity purification

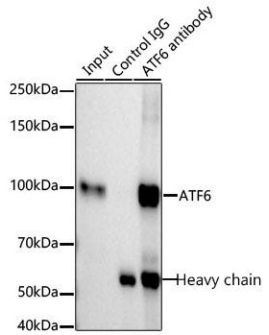
Storage

Store at -20℃
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

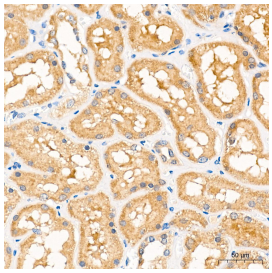
Validation Data



Western blot analysis of lysates from HeLa cells using ATF6 Rabbit pAb (A0202SP) at 1:5000 dilution incubated overnight at 4℃. HeLa cells were treated with Tunicamycin (20μg/ml) at 37℃ for 6 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: 10 s.



Immunoprecipitation of ATF6 from 300 μg extracts of HeLa cells was performed using 3 μg of ATF6 Rabbit pAb (A0202SP). RabbitIgG isotype control (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using ATF6 Rabbit pAb (A0202SP) at a dilution of 1:5000.



Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using ATF6 Rabbit pAb (A0202SP) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.