

ATF6

Reactivity: Human Mouse Rat

Tested applications: WB IHC IF

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:100 IF 1:50 - 1:200

Calculated MW: 75kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human ATF6

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

100 µg/ml

Synonym:

ATF6 ; ATF6A ; Processed cyclic AMP-dependent transcription factor ATF-6 alpha ; Activating transcription factor 6 alpha ;

Catalog #: A0202

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 22926

Isotype: IgG

Swiss Prot: P18850

Purity: Affinity purification

For research use only.

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.

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