

## 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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