

ATF4 Polyclonal Antibody

Catalog No	A0201	Category	Polyclonal Antibodies
Applications	WB, IF	Observed MW	50kDa
Cross-Reactivity	Human, Mouse, Rat	Calculated MW	38kDa

Immunogen Information

Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-351 of human ATF4 (NP_001666.2).
Gene ID	468
Swiss Prot	P18848
Synonyms	ATF4; CREB-2; CREB2; TAXREB67; TXREB; activating transcription factor 4

Product information

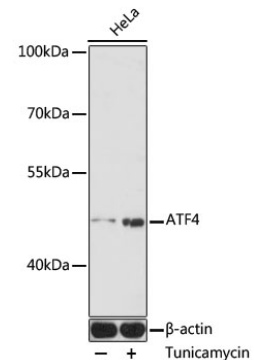
Source	Rabbit
Isotype	IgG
Purity	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

Background

This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication.

Recommended Dilutions

WB	1:500 - 1:2000
IF	1:50 - 1:200



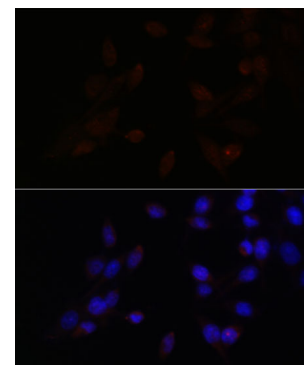
Western blot analysis of extracts of HeLa cells, using ATF4 antibody (A0201) at 1:1000 dilution. HeLa cells were treated by tunicamycin (2 µg/ml) for 8 hours.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 3 min.



Immunofluorescence analysis of HeLa cells using ATF4 antibody (A0201) at dilution of 1:100. Blue: DAPI for nuclear staining.