

## Product datasheet for **TA373766**

### ATF 4 (ATF4) Rabbit Polyclonal Antibody

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies                                      |
| Applications:           | IHC, WB   |
| Recommended Dilution:   | WB,1:500 - 1:2000<br>IHC,1:50 - 1:200                   |
| Reactivity:             | Human, Mouse, Rat                                       |
| Modifications:          | Unmodified  |
| Host:                   | Rabbit  |
| Isotype:                | IgG   |
| Clonality:              | Polyclonal  |
| Immunogen:              | Recombinant protein of human ATF4.                      |
| Formulation:            | Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3. |
| Concentration:          | lot specific  |
| Purification:           | Affinity purification                                   |
| Conjugation:            | Unconjugated  |
| Storage:                | Store at -20°C. Avoid freeze / thaw cycles.             |
| Stability:              | Shelf life: one year from despatch.                     |
| Predicted Protein Size: | 38kDa   |
| Gene Name:              | activating transcription factor 4                       |
| Database Link:          | <a href="#">Entrez Gene 468 Human P18848</a>            |



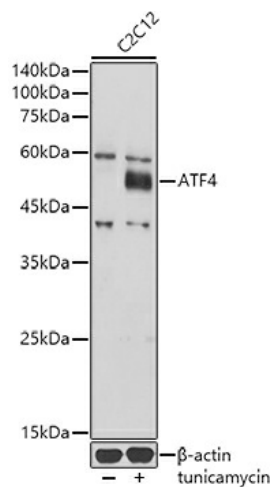
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**Background:**

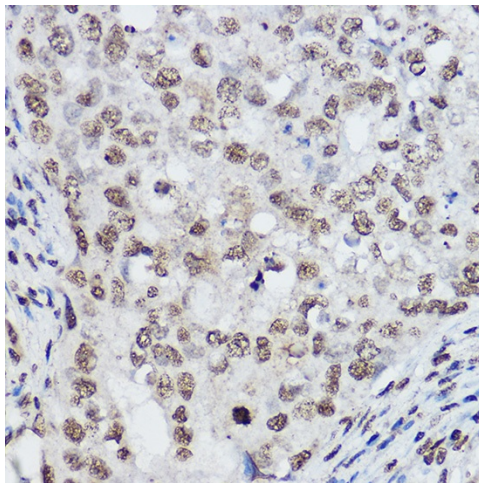
This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). 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.

**Synonyms:**

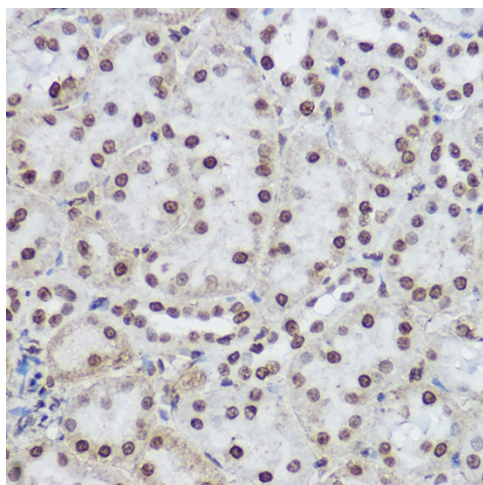
CREB-2; CREB2; OTTHUMP00000199130; TAXREB67; TXREB

**Product images:**

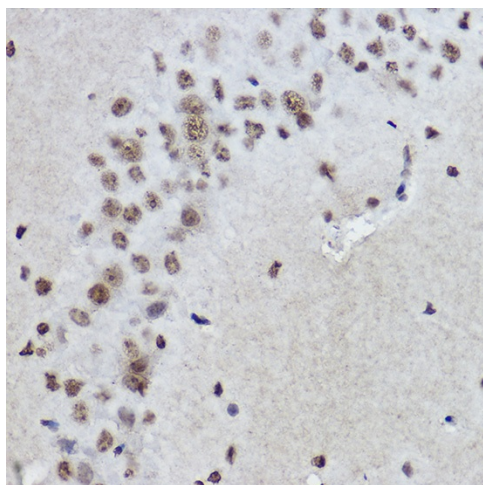
Western blot analysis of extracts of C2C12 cells, using ATF4 antibody (TA373766) at 1:500 dilution. C2C12 cells were treated by tunicamycin (2 µg/ml) for 8 hours. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit. | Exposure time: 10s.



Immunohistochemistry of paraffin-embedded human breast cancer using ATF4 antibody (TA373766) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded mouse kidney using ATF4 antibody (TA373766) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry of paraffin-embedded rat brain using ATF4 antibody (TA373766) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.