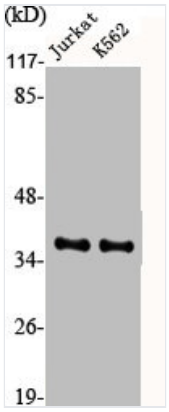
# ATF4 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | ATF4, Polyclonal Antibody |
| **Full Product Name** | ATF4 Antibody |
| **Product Gene Name** | anti-ATF4 antibody |
| **Product Synonym Names** | ATF4; CREB2; TXREB; Cyclic AMP-dependent Transcription factor ATF-4; cAMP-dependent Transcription factor ATF-4; Activating Transcription factor 4; Cyclic AMP-responsive element-binding protein 2; CREB-2; cAMP-responsive element-binding prot |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide. |
| **Purity/Purification** | Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Preparation and Storage** | Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze. |
| **Molecular Weight** | 40 kDa |
| **Chromosome Location** | Chromosome: 22; NC_000022.10 (39916569..39918691). Location: 22q13.1 |
| **OMIM** | 604064 |
| **3D Structure** | ModBase 3D Structure for P18848 |
| **Immunogen** | Synthesized peptide derived from human CREB-2 around the non-phosphorylation site of S245. |
| **Immunogen Species** | Human |
| **Conjugate** | Non-conjugated |
| **Product Categories/Family for anti-ATF4 antibody** | Epigenetics and Nuclear Signaling |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-ATF4 antibody** | Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA) |
| **Application Notes for anti-ATF4 antibody** | IHC: 1:100-1:300<br>ELISA: 1:20000 |
| **Related Product Information for anti-ATF4 antibody** | MBS7116169 is an antibody targeting ATF4. Also known as ATF4 Antibody. Reactive in Human. Host: Rabbit. |
| **Other Notes** | Small volumes of anti-ATF4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-ATF4 antibody**
Western Blot analysis of Jurkat K562 cells using CREB-2 Polyclonal Antibody

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATF4. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 33469976 |
| **NCBI GeneID** | 468 |
| **NCBI Accession #** | NP_001666.2 |
| **UniProt Primary Accession #** | P18848 |
| **UniProt Secondary Accession #** | Q9UH31 |
| **UniProt Related Accession #** | P18848 |
| **GenBank Nucleotide #** | NM_001675.2 |
| **NCBI Official Full Name** | cyclic AMP-dependent transcription factor ATF-4 |
| **NCBI Official Synonym Full Names** | activating transcription factor 4 |
| **NCBI Official Symbol** | ATF4 |
| **NCBI Official Synonym Symbols** | CREB2; TXREB; CREB-2; TAXREB67 |
| **UniProt Protein Name** | Cyclic AMP-dependent transcription factor ATF-4 |
| **UniProt Synonym Protein Names** | Activating transcription factor 4; Cyclic AMP-responsive element-binding protein 2; CREB-2; cAMP-responsive element-binding protein 2; DNA-binding protein TAXREB67; Tax-responsive enhancer element-binding protein 67 |
| **Protein Family** | Cyclic AMP-dependent transcription factor |
| **UniProt Gene Name** | ATF4 |
| **UniProt Synonym Gene Names** | CREB2; TXREB; cAMP-dependent transcription factor ATF-4; CREB-2; cAMP-responsive element-binding protein 2; TaxREB67 |
| **UniProt Entry Name** | ATF4_HUMAN |
| **NCBI Protein Information** | cyclic AMP-dependent transcription factor ATF-4; DNA-binding protein TAXREB67; tax-responsive enhancer element B67; cAMP response element-binding protein 2; cAMP-dependent transcription factor ATF-4; cAMP-responsive element-binding protein 2; cyclic AMP-r |

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| **NCBI Summary for ATF4** | 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. [provided by RefSeq, Sep 2011] |
| **UniProt Comments for ATF4** | ATF-4: a transcription factor that is a member of the leucine zipper family. Isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). Involved in cisplatin resistance. Other members of the family include AP-1 transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. Two alternatively spliced isoforms have been described.<br><br>Protein type: Transcription factor; DNA-binding<br><br>Chromosomal Location of Human Ortholog: 22q13.1<br><br>Cellular Component: nucleoplasm; neuron projection; cytoplasm; microtubule organizing center; nucleus<br><br>Molecular Function: protein C-terminus binding; protein binding; leucine zipper domain binding; DNA binding; sequence-specific DNA binding; protein heterodimerization activity; transcription factor activity<br><br>Biological Process: transcription from RNA polymerase II promoter; amino acid metabolic process; unfolded protein response; positive regulation of apoptosis; negative regulation of potassium ion transport; positive regulation of transcription, DNA-dependent; gluconeogenesis; positive regulation of transcription from RNA polymerase I promoter; cellular response to glucose starvation; cellular protein metabolic process; unfolded protein response, activation of signaling protein activity; regulation of transcription, DNA-dependent; positive regulation of neuron apoptosis; positive regulation of transcription from RNA polymerase II promoter; circadian regulation of gene expression; gamma-aminobutyric acid signaling pathway |
| **Research Articles on ATF4** | **1.** ATF4 acts as a positive regulator in TLR4-triggered cytokine production. |
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