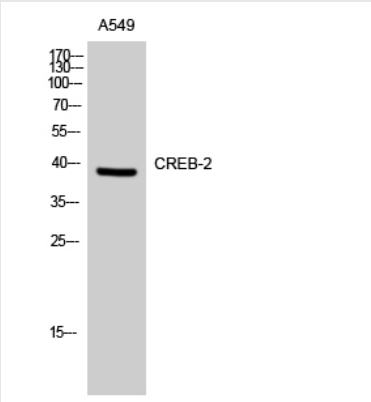
CREB-2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CREB-2, Polyclonal Antibody
Full Product Name	CREB-2 Rabbit Polyclonal Antibody
Product Gene Name	anti-CREB-2 antibody
Product Synonym Gene Name	ATF4
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; BH6842; Cyclic AMP-dependent transcription factor ATF-4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	CREB-2 Polyclonal Antibody detects endogenous levels of CREB-2 protein.
Preparation and Storage	Store at -20 degree C/1 year
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 CREB-2. at AA range: 160-240
Modification	Unmodified/Total
Applications Tested/Suitable for anti-CREB-2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CREB-2 antibody	WB: 1/500-1/2000 ELISA: 1/10000
Related Product Information for anti-CREB-2 antibody	activating transcription factor 4 (ATF4) Homo sapiens 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. [provid
Other Notes	Small volumes of anti-CREB-2 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.

Searchable Terms for CREB-2 purchase	MBS9512027 is an antibody targeting CREB-2. Also known as CREB-2 Rabbit Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-CREB-2 antibody
Western Blot analysis of A549 cells using CREB-2 Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CREB-2. It may not necessarily be applicable to this product.

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
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

NCBI Summary for CREB-2	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 CREB-2	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. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: nucleoplasm; neuron projection; cytoplasm; microtubule organizing center; nucleus Molecular Function: protein C-terminus binding; protein binding; leucine zipper domain binding; DNA binding; sequence-specific DNA binding; protein heterodimerization activity; transcription factor activity 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 CREB-2	**1.** ATF4 acts as a positive regulator in TLR4-triggered cytokine production.
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