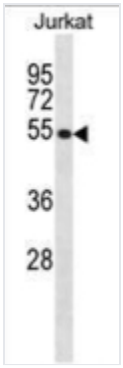
CREB3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CREB3, Polyclonal Antibody
Full Product Name	CREB3, NT (CREB3, LZIP, Cyclic AMP-responsive element-binding protein 3, Leucin zipper proitein, Luman, Transcription factor LZIP-alpha, Processed cyclic AMP-responsive element-binding protein 3) (Biotin)
Product Gene Name	anti-CREB3 antibody
Product Synonym Names	CREB3; LZIP; Cyclic AMP-responsive element-binding protein 3; Leucin zipper proitein; Luman; Transcription factor LZIP-alpha; Processed cyclic AMP-responsive element-binding protein 3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human CREB3.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	39,580 Da
OMIM	606443
3D Structure	ModBase 3D Structure for O43889
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 66-94 in the N-terminal region of human CREB3, UniProt Accession #O43889; NP_006359.3.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-CREB3 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-CREB3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CREB3 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CREB3 antibody	This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds to the cAMP-response element and regulates cell proliferation. The protein interacts with host cell factor C1, which also associates with the herpes simplex virus (HSV) protein VP16 that induces transcription of HSV immediate-early genes. This protein and VP16 both bind to the same site on host cell factor C1. It is thought that the interaction between this protein and host cell factor C1 plays a role in the establishment of latency during HSV infection. This protein also plays a role in leukocyte migration, tumor suppression, and endoplasmic reticulum stress-associated protein degradation. Additional transcript variants have been identified, but their biological validity has not been determined.

Product References and Citations for anti-CREB3 antibody	Kim, H.C., et al. Cell. Mol. Life Sci. 67(20):3499-3510(2010). Eleveld-Trancikova, D., et al. Mol. Immunol. 47 (11-12), 1963-1973 (2010): Kang, H., et al. Mol. Endocrinol. 23(11):1746-1757(2009). Mamdani, F., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (4), 500-504 (2008): Audas, T.E., et al. Mol. Cell. Biol. 28(12):3952-3966(2008).
Other Notes	Small volumes of anti-CREB3 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 CREB3 purchase	MBS6288628 is an antibody targeting CREB3. Also known as CREB3, NT (CREB3, LZIP, Cyclic AMP-responsive element-binding protein 3, Leucin zipper proitein, Luman, Transcription factor LZIP-alpha, Processed cyclic AMP-responsive element-binding protein 3) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CREB3 antibody
Western blot analysis in Jurkat cell line lysates (35ug/lane) usingMBS6012934. This demonstrates the CREB3 antibody detected the CREB3 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CREB3. It may not necessarily be applicable to this product.

NCBI GI #	38327637
NCBI GeneID	10488
NCBI Accession #	NP_006359.3
UniProt Primary Accession #	O43889
UniProt Secondary Accession #	O14671; O14919; Q5TCV1; Q96GK8; Q9H2W3; Q9UE77; D0PTW6
UniProt Related Accession #	O43889
GenBank Nucleotide #	NM_006368
NCBI Official Full Name	Homo sapiens cAMP responsive element binding protein 3 (CREB3), mRNA
NCBI Official Synonym Full Names	cAMP responsive element binding protein 3
NCBI Official Symbol	CREB3
NCBI Official Synonym Symbols	LZIP; LUMAN; sLZIP
UniProt Protein Name	Cyclic AMP-responsive element-binding protein 3
UniProt Synonym Protein Names	Leucine zipper protein; Luman; Transcription factor LZIP-alphaProcessed cyclic AMP-responsive element-binding protein 3; N-terminal Luman; Transcriptionally active form
Protein Family	Cyclic AMP-responsive element-binding protein
UniProt Gene Name	CREB3
UniProt Synonym Gene Names	LZIP; CREB-3; cAMP-responsive element-binding protein 3; N-terminal Luman; Transcriptionally active form
UniProt Entry Name	CREB3_HUMAN

NCBI Protein Information	cyclic AMP-responsive element-binding protein 3; CREB-3; basic leucine zipper protein; cAMP-responsive element-binding protein 3; cyclic AMP response element (CRE)-binding protein/activating transcription factor 1; leucin zipper proitein; small leucine zi
UniProt Comments for CREB3	CREB3: Endoplasmic reticulum (ER)-bound transcription factor that plays a role in the unfolded protein response (UPR). Involved in cell proliferation and migration, tumor suppression and inflammatory gene expression. Plays also a role in the human immunodeficiency virus type 1 (HIV-1) virus protein expression and in the herpes simplex virus-1 (HSV-1) latent infection and reactivation from latency. Isoform 2 plays a role in the unfolded protein response (UPR). Isoform 2 acts as a positive regulator of LKN-1/CCL15-induced chemotaxis signaling of leukocyte cell migration. Isoform 2 may play a role as a cellular tumor suppressor that is targeted by the hepatitis C virus (HSV) core protein. Isoform 2 represses the VP16-mediated transactivation of immediate early genes of the HSV-1 virus by sequestring host cell factor-1 HCFC1 in the ER membrane of sensory neurons, thereby preventing the initiation of the replicative cascade leading to latent infection. Isoform 3 functions as a negative transcriptional regulator in ligand-induced transcriptional activation of the glucocorticoid receptor NR3C1 by recruiting and activating histone deacetylases (HDAC1, HDAC2 and HDAC6). Isoform 3 decreases the acetylation level of histone H4. Isoform 3 does not promote the chemotactic activity of leukocyte cells. Belongs to the bZIP family. ATF subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; Membrane protein, integral Chromosomal Location of Human Ortholog: 9p13.3 Cellular Component: Golgi membrane; Golgi apparatus; nuclear body; endoplasmic reticulum membrane; membrane; cell soma; endoplasmic reticulum; cytoplasm; integral to membrane; integral to endoplasmic reticulum membrane; cytosol; nucleus Molecular Function: protein dimerization activity; CCR1 chemokine receptor binding; protein binding; protein homodimerization activity; DNA binding; cAMP response element binding protein binding; chromatin binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; cytoplasmic sequestering of transcription factor; viral reproduction; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; positive regulation of transcription of target genes involved in unfolded protein response; establishment of viral latency; chemotaxis; induction of positive chemotaxis; negative regulation of cell cycle; regulation of cell proliferation; reactivation of latent virus; positive regulation of transcription from RNA polymerase II promoter; regulation of cell growth; positive regulation of calcium ion transport; positive regulation of defense response to virus by host; positive regulation of cell migration
Research Articles on CREB3	**1.** human sLZIP plays a critical role in development of atherosclerosis and can be used as a therapeutic target molecule for treatment of atherosclerosis
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