CREB3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CREB3, Monoclonal Antibody
Full Product Name	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) (MaxLight 650)
Product Gene Name	anti-CREB3 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3H5
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CREB3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	39,580 Da
OMIM	606443
3D Structure	ModBase 3D Structure for O43889
Immunogen	Partial recombinant corresponding to aa273-371 from CREB3 (NP_006359) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	DPYQLELPALQSEVPKDSTHQWLDGSDCVLQAPGNTSCLLHYMPQAPSAEPPLEWPFPDLFSEPLCRGPILPLQANLTRKGGWLPTGSPSVILQDRYSG
Conjugate	MaxLight650
Product Categories/Family for anti-CREB3 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-CREB3 antibody	FLISA, Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-CREB3 antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-CREB3 antibody	MBS6221629 is an antibody targeting CREB3. Also known as 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) (MaxLight 650). Reactive in Human. Host: Mouse.

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.

ADDITIONAL DETAILS

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

NCBI GI #	22219462
NCBI GeneID	10488
NCBI Accession #	NP_006359
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	cyclic AMP-responsive element-binding protein 3
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
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