CREB3L2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CREB3L2, Polyclonal Antibody
Full Product Name	CREB3L2, CT (CREB3L2, BBF2H7, Cyclic AMP-responsive element-binding protein 3-like protein 2, BBF2 human homolog on chromosome 7, Processed cyclic AMP-responsive element-binding protein 3-like protein 2) (MaxLight 550)
Product Gene Name	anti-CREB3L2 antibody
Product Synonym Names	CREB3L2; BBF2H7; Cyclic AMP-responsive element-binding protein 3-like protein 2; BBF2 human homolog on chromosome 7; Processed cyclic AMP-responsive element-binding protein 3-like protein 2
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 MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	57,415 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (137559725..137686847, complement). Location: 7q34
OMIM	608834
3D Structure	ModBase 3D Structure for Q70SY1
Immunogen	CREB3L2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 491~520 amino acids from the C-terminal region of human CREB3L2.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-CREB3L2 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-CREB3L2 antibody	Western Blot (WB), FLISA
Application Notes for anti-CREB3L2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CREB3L2 antibody	CREB3L2 is a member of the old astrocyte specifically induced substance (OASIS) DNA binding and basic leucine zipper dimerization (bZIP) family of transcription factors, which includes CREB3 (MIM 606443) and CREB4 (MIM 607138).
Product References and Citations for anti-CREB3L2 antibody	Panagopoulos, I., et al. Oncol. Rep. 21(3):615-624(2009). Lui, W.O., et al. Cancer Res. 68(17):7156-7164(2008).

Other Notes	Small volumes of anti-CREB3L2 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 CREB3L2 purchase	MBS6288644 is an antibody targeting CREB3L2. Also known as CREB3L2, CT (CREB3L2, BBF2H7, Cyclic AMP-responsive element-binding protein 3-like protein 2, BBF2 human homolog on chromosome 7, Processed cyclic AMP-responsive element-binding protein 3-like protein 2) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CREB3L2. It may not necessarily be applicable to this product.

NCBI GI #	359339005
NCBI GeneID	64764
NCBI Accession #	NP_001240704.1
UniProt Primary Accession #	Q70SY1
UniProt Secondary Accession #	Q6P454; Q6ZMR6
UniProt Related Accession #	Q70SY1
GenBank Nucleotide #	NM_001253775.1
NCBI Official Full Name	cyclic AMP-responsive element-binding protein 3-like protein 2 isoform 2
NCBI Official Synonym Full Names	cAMP responsive element binding protein 3-like 2
NCBI Official Symbol	CREB3L2
NCBI Official Synonym Symbols	BBF2H7
UniProt Protein Name	Cyclic AMP-responsive element-binding protein 3-like protein 2
UniProt Synonym Protein Names	BBF2 human homolog on chromosome 7
Protein Family	Cyclic AMP-responsive element-binding protein 3-like protein
UniProt Gene Name	CREB3L2
UniProt Synonym Gene Names	BBF2H7; cAMP-responsive element-binding protein 3-like protein 2
UniProt Entry Name	CR3L2_HUMAN
NCBI Protein Information	cyclic AMP-responsive element-binding protein 3-like protein 2; TCAG_1951439; FUS/BBF2H7 protein; B-ZIB transcription factor; basic transcription factor 2; BBF2 human homolog on chromosome 7; cAMP-responsive element-binding protein 3-like protein 2
NCBI Summary for CREB3L2	This gene encodes a member of the oasis bZIP transcription factor family. Members of this family can dimerize but form homodimers only. The encoded protein is a transcriptional activator. Translocations between this gene on chromosome 7 and the gene fused in sarcoma on chromosome 16 can be found in some tumors. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

UniProt Comments for CREB3L2	CREB3L2: Transcriptional activator which is processed and activated during endoplasmic reticulum stress late phase. Binds to the cAMP response element (CRE) and activates transcription through CRE. Regulates the transcription of unfolded protein response target genes, preventing accumulation of unfolded proteins in damaged neurons. Also regulates the expression of SEC23A, accelerating protein trafficking from the ER to the Golgi thereby playing a key role in chondrocyte differentiation and formation of epiphyseal cartilage. A chromosomal aberration involving CREB3L2 is found in low grade fibromyxoid sarcoma (LGFMS). Translocation t(7;16)(q33;p11) with FUS. 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; Oncoprotein Chromosomal Location of Human Ortholog: 7q34 Cellular Component: endoplasmic reticulum membrane; endoplasmic reticulum; integral to membrane; nucleus Biological Process: ER to Golgi vesicle-mediated transport; transcription, DNA-dependent; unfolded protein response; cartilage development; positive regulation of transcription, DNA-dependent; chondrocyte differentiation; positive regulation of transcription from RNA polymerase II promoter
Research Articles on CREB3L2	**1.** the BBF2H7-mediated Sec23A pathway is required for ER-to-Golgi procollagen trafficking to promote collagen synthesis
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