CREB3L4 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CREB3L4, Monoclonal Antibody
Full Product Name	CREB3L4 (AIBZIP, Cyclic AMP-responsive Element-binding Protein 3-like Protein 4, cAMP-responsive Element-binding Protein 3-like Protein 4, Androg Basic Leucine Zipper Protein, AIbZIP, Attaching to CRE-like 1, ATCE1, Cyclic AMP-responsive Element
Product Gene Name	anti-CREB3L4 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3E3
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CREB3L4.
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 amo immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of produc the original vial prior to removing the cap.
OMIM	607138
3D Structure	ModBase 3D Structure for Q8TEY5
Immunogen	Partial recombinant protein corresponding to aa1-111 from human CREB3L4 (NP_570968) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MDLGIPDLLDAWLEPPEDIFSTGSVLELGLHCPPPEVPVTRLQEQGLQGWKSGGDRGCGLQESEPEDFLKLFIDPNEVYCSEASPGSDSGISEDPCHPDS
Conjugate	MaxLight750
Product Categories/Family for anti-CREB3L4 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-CREB3L4 antibody	FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-CREB3L4 antibody	IF: 10ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-CREB3L4 antibody	MBS6232306 is an antibody targeting CREB3L4. Also known as CREB3L4 (AIBZIP, Cyclic AMP-responsive Element-binding Protein 3-like Protein 4, c responsive Element-binding Protein 3-like Protein 4, Androgen-induced Basic Leucine Zipper Protein, AIbZIP, Attaching to CRE-like 1, ATCE1, Cyclic A responsive Element. Reactive in Human. Host: Mouse.

Other Notes	Small volumes of anti-CREB3L4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nec 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 apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CREB3L4. It may not necessarily be applicable to this product.

NCBI GI #	18702325
NCBI GeneID	148327
NCBI Accession #	NP_570968
UniProt Primary Accession #	Q8TEY5
UniProt Related Accession #	Q8TEY5
GenBank Nucleotide #	NM_130898
NCBI Official Full Name	cyclic AMP-responsive element-binding protein 3-like protein 4 isoform 1
NCBI Official Synonym Full Names	cAMP responsive element binding protein 3 like 4
NCBI Official Symbol	CREB3L4
NCBI Official Synonym Symbols	JAL; hJAL; ATCE1; CREB3; CREB4; AIBZIP
UniProt Protein Name	Cyclic AMP-responsive element-binding protein 3-like protein 4
UniProt Synonym Protein Names	Androgen-induced basic leucine zipper protein; AIbZIP; Attaching to CRE-like 1; ATCE1; Cyclic AMP-responsive element-binding protein 4; CREB-4; cAMP-responsive element-binding protein 4; Transcript induced in spermiogenesis protein 40; Tisp40; hJALProcessed cyclic AMP-responsive element-binding protein 3-like protein 4
Protein Family	Cyclic AMP-responsive element-binding protein 3-like protein
UniProt Gene Name	CREB3L4
UniProt Synonym Gene Names	AIBZIP; CREB4; JAL; cAMP-responsive element-binding protein 3-like protein 4; AIbZIP; ATCE1; CREB-4; cAMP-responsive element-binding protein 4; Tisp40
UniProt Entry Name	CR3L4_HUMAN
NCBI Protein Information	cyclic AMP-responsive element-binding protein 3-like protein 4
NCBI Summary for CREB3L4	This gene encodes a CREB (cAMP responsive element binding) protein with a transmembrane domain which localizes it to the ER membrane. The encoded protein is a transcriptional activator which contains a dimerization domain, and this protein may function in a number of processing pathways including protein processing. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
UniProt Comments for CREB3L4	CREB3L4: Transcriptional activator that may play a role in the unfolded protein response. Binds to the UPR element (UPRE) but not to CRE element. Preferentially binds DNA with to the consensus sequence 5'-T[GT]ACGT[GA][GT]-3' and has transcriptional activation activity from UPRE. Binds to NF-kappa-B site and has transcriptional activation activity from NF-kappa-B-containing regulatory elements. Belongs to the bZIP family. ATF subfamily. Protein type: Transcription factor; Membrane protein, integral; Endoplasmic reticulum Chromosomal Location of Human Ortholog: 1q21.3 Cellular Component: Golgi membrane; Golgi apparatus; endoplasmic reticulum membrane; endoplasmic reticulum; integral to membrane; nucleus Biological Process: transcription, DNA-dependent; unfolded protein response; positive regulation of transcription from RNA polymerase II promoter; spermatogenesis

Research Articles on CREB3L4	**1.** Study demonstrated that MCU1 is frequently overexpressed in breast cancer and abnormally high expression of MUC1 indicates poor prognosis. Subsequent data mining across multiple large databases demonstrated a positive association between MUC1 mRNA expression CREB3L4 in breast cancer tissues. Results indicated that MUC1 transcript expression may regulate tumor invasion and metastasis associated with CREB3L4 transcription.
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