

Anti-CREB3L1 Picoband Antibody

Catalog # ABO12180

Product Information

Application	WB
Primary Accession	Q96BA8
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Cyclic AMP-responsive element-binding protein 3-like protein 1(CREB3L1) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	90993
Other Names	Cyclic AMP-responsive element-binding protein 3-like protein 1, cAMP-responsive element-binding protein 3-like protein 1, Old astrocyte specifically-induced substance, OASIS, Processed cyclic AMP-responsive element-binding protein 3-like protein 1, CREB3L1, OASIS
Calculated MW	57005
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Endoplasmic reticulum membrane ; Single-pass type II membrane protein. ER membrane resident protein. Upon ER stress, translocated to the Golgi apparatus where it is cleaved. The cytosolic N-terminal fragment (processed cyclic AMP-responsive element-binding protein 3-like protein 1) is transported into the nucleus. .
Tissue Specificity	Expressed in several tissues, with highest levels in pancreas and prostate. Expressed at relatively lower levels in brain. .
Source	Eukaryota
Protein Name	Cyclic AMP-responsive element-binding protein 3-like protein 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human CREB3L1 recombinant protein (Position: M1-M204). Human CREB3L1 shares 93.6% and 93.1% amino acid (aa) sequence identity with mouse and rat CREB3L1, respectively.

Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20° C for one year. After r° Constitution, at 4° C for one month. It° Can also be aliquotted and stored frozen at -20° C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the bZIP family. ATF subfamily.

Protein Information

Name	CREB3L1 (HGNC:18856)
Function	[Cyclic AMP-responsive element-binding protein 3-like protein 1]: Precursor of the transcription factor form (Processed cyclic AMP- responsive element-binding protein 3-like protein 1), which is embedded in the endoplasmic reticulum membrane with N-terminal DNA-binding and transcription activation domains oriented toward the cytosolic face of the membrane (PubMed: 12054625 , PubMed: 16417584 , PubMed: 25310401). In response to ER stress or DNA damage, transported to the Golgi, where it is cleaved in a site-specific manner by resident proteases S1P/MBTPS1 and S2P/MBTPS2. The released N-terminal cytosolic domain is translocated to the nucleus where it activates transcription of specific target genes involved in the cell-cycle progression inhibition (PubMed: 12054625 , PubMed: 21767813 , PubMed: 25310401).
Cellular Location	[Cyclic AMP-responsive element-binding protein 3- like protein 1]: Endoplasmic reticulum membrane; Single-pass type II membrane protein Note=ER membrane resident protein. Upon ER stress, translocated to the Golgi apparatus where it is cleaved. The cytosolic N-terminal fragment (processed cyclic AMP-responsive element-binding protein 3-like protein 1) is transported into the nucleus.
Tissue Location	Expressed in several tissues, with highest levels in pancreas and prostate. Expressed at relatively lower levels in brain.

Background

CREB3L1, known as Cyclic AMP-responsive element-binding protein 3-like protein 1, is mapped to 11p11.2. The protein encoded by this gene is normally found in the membrane of the endoplasmic reticulum (ER). However, upon stress to the ER, the encoded protein is cleaved and the released cytoplasmic transcription factor domain translocates to the nucleus. There it activates the transcription of target genes by binding to box-B elements.

Images

Anti- CREB3L1 Picoband antibody, ABO12180, Western blottingAll lanes: Anti CREB3L1 (ABO12180) at 0.5ug/mlLane 1: Human Placenta Tissue Lysate at 50ugLane 2: HELA Whole Cell Lysate at 40ugLane 3: A549 Whole Cell Lysate at 40ugLane 4: MM231 Whole Cell Lysate at 40ugLane 5: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 57KD
Observed bind size: 57KD



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