

Anti-CREB3L1 Picoband Antibody
Catalog # ABO12180**Specification**

Anti-CREB3L1 Picoband Antibody - 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.

Anti-CREB3L1 Picoband Antibody - 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 MW KDa

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. .

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 reconstitution, 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.

Anti-CREB3L1 Picoband Antibody - 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](http://www.uniprot.org/citations/12054625), PubMed: [16417584](http://www.uniprot.org/citations/16417584), PubMed: [25310401](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/12054625), PubMed: [21767813](http://www.uniprot.org/citations/21767813), PubMed: [25310401](http://www.uniprot.org/citations/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

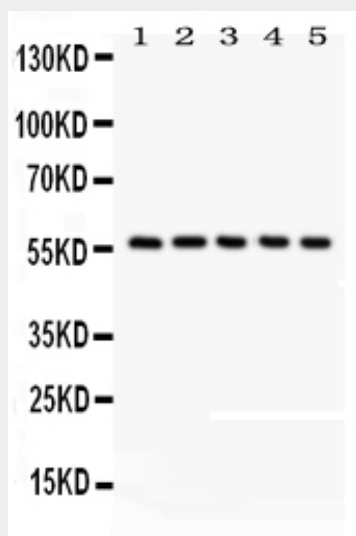
Expressed in several tissues, with highest levels in pancreas and prostate. Expressed at relatively lower levels in brain.

Anti-CREB3L1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CREB3L1 Picoband Antibody - Images



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

Anti-CREB3L1 Picoband Antibody - 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.