

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

---

**Anti-CREB3L1 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q96BA8</a>
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<br>

**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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**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**

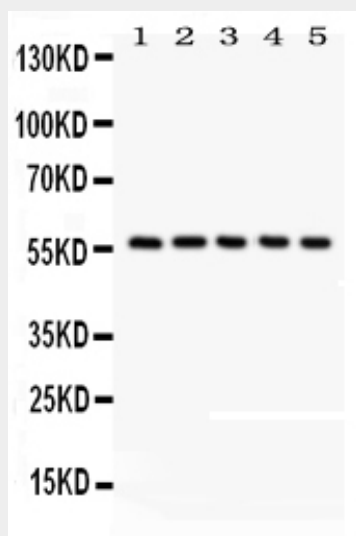
Expressed in several tissues, with highest levels in pancreas and prostate. Expressed at relatively lower levels in brain.

**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 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: 57KDObserved 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.