

**CREB3L1 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6589b**

**Specification**

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**CREB3L1 Antibody (C-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">O96BA8</a>
Other Accession	<a href="#">NP_443086</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	57005
Antigen Region	481-509

**CREB3L1 Antibody (C-term) - 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

**Target/Specificity**

This CREB3L1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 481-509 amino acids from the C-terminal region of human CREB3L1.

**Dilution**

WB~~1:8000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CREB3L1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CREB3L1 Antibody (C-term) - 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

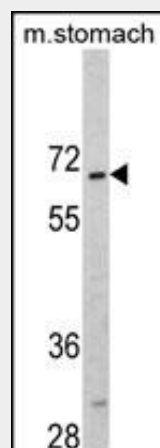
Expressed in several tissues, with highest levels in pancreas and prostate. Expressed at relatively lower levels in brain.

### CREB3L1 Antibody (C-term) - Protocols

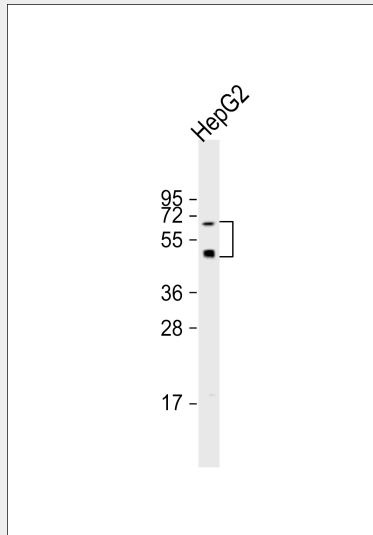
Provided below are standard protocols that you may find useful for product applications.

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

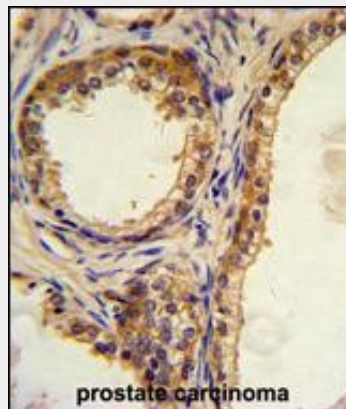
### CREB3L1 Antibody (C-term) - Images



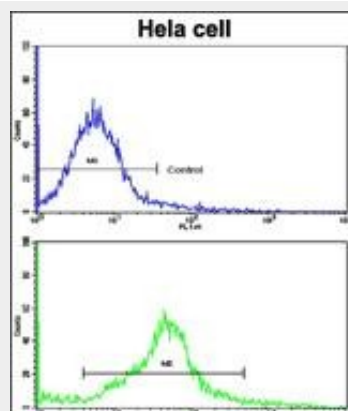
Western blot analysis of CREB3L1 Antibody (C-term) (Cat. #AP6589b) in mouse stomach tissue lysates (35ug/lane). CREB3L1 (arrow) was detected using the purified Pab.



Anti-CREB3L1 Antibody (C-term) at 1:8000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 57 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



Formalin-fixed and paraffin-embedded human prostate carcinoma with CREB3L1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of hela cells using CREB3L1 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **CREB3L1 Antibody (C-term) - Background**

CREB3L1 is a transcription factor that acts during endoplasmic reticulum stress by activating unfolded protein response target genes. It is specifically involved in ER-stress response in astrocytes in the central nervous system (By similarity). It may play a role in gliosis. In vitro, it binds to box-B element, cAMP response element (CRE) and CRE-like sequences, and activates transcription through box-B element but not through CRE.

### **CREB3L1 Antibody (C-term) - References**

Guillou,L., Am. J. Surg. Pathol. 31 (9), 1387-1402 (2007)  
Omori,Y., Biochem. Biophys. Res. Commun. 293 (1), 470-477 (2002)