SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CREB3L1 antibody

Catalog Number: SL14051R

FOR RESEARCH USE ONLY

[DATASHEET]

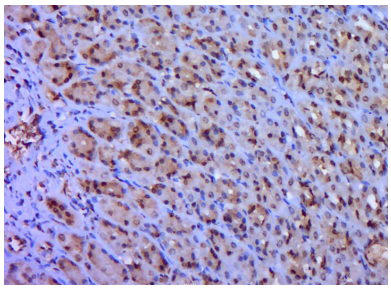
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CREB3L1
Immunogen:	KLH conjugated synthetic peptide derived from human CREB3L1: 251-350/519
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Cow,Horse)
Predicted MW.:	57kDa
Subcellular Location:	The nucleus
Background:	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. [provided by RefSeq, Jun 2013] **Function:** Transcription factor that acts during endoplasmic reticulum stress by activating unfolded protein response target genes. Specifically involved in ER-stress response in astrocytes in the central nervous system (By similartity). May play a role in gliosis. In vitro, binds to box-B element, cAMP response element (CRE) and CRE-like sequences, and activates transcription through box-B element but not through CRE. **Subcellular Location:** Endoplasmic reticulum membrane and Nucleus. Under

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	ER stress the cleaved N-terminal cytoplasmic domain translocates into the nucleus. **Tissue Specificity:** Ubiquitously expressed with high levels in pancreas and prostate. Expressed at relatively lower levels in brain. **Post-translational modifications:** Controlled by regulated intramembrane proteolysis (RIP). Following ER stress a fragment containing the cytoplasmic transcription factor domain is released by proteolysis. The cleavage is performed sequentially by site-1 and site-2 proteases (PS1 and PS2) and is triggered by translocation to the Golgi apparatus. **Similarity:** Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP domain. **Database links:** **Entrez Gene:** 90993 Human **Entrez Gene:** 26427 Mouse **Entrez Gene:** 362165 Rat **SwissProt:** Q96BA8 Human **SwissProt:** Q9Z125 Mouse **SwissProt:** Q66HA2 Rat **Unigene:** 405961 Human **Unigene:** 10353 Mouse **Unigene:** 24541 Rat

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CREB3L1) Polyclonal Antibody, Unconjugated (SL14051R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0024) for 20 minutes and DAB staining.

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