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CREB3L1 Rabbit pAb

Catalog # AP99255

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96BA8
Other Accession	Q96BA8
Reactivity	Rat
Predicted	Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57005
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CREB3L1
Epitope Specificity	251-350/519
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP domain.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	90993
Other Names	C16DELp11.2; DEL16p11.2; OASIS; OI16; CR3L1_HUMAN; CREB3L1; cAMP-responsive element-binding protein 3-like protein 1; Old astrocyte specifically-induced substance (OASIS); CR3L1_MOUSE; CR3L1_RAT; cAMP responsive element binding protein 3 like 1; BBF-2 homolog (drosophila); old astrocyte specifically induced substance
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

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