

Rabbit CREB3L1, OASIS Polyclonal Antibody | anti-CREB3L1 antibody

CREB3L1, OASIS Antibody

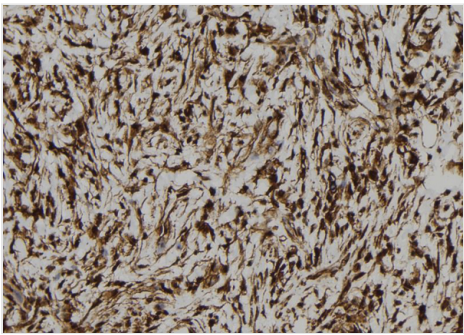
CATALOG # AAA323085	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

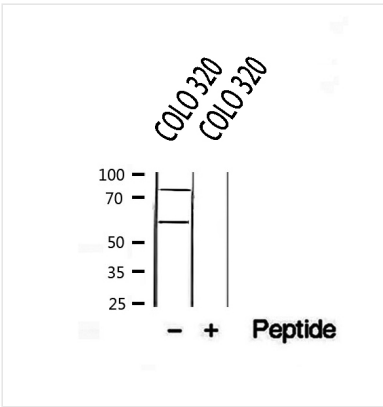
CREB3L1; OASIS; Polyclonal Antibody; OASIS Antibody; BBF-2 homolog; CAMP responsive element binding protein 3 like 1; cAMP-responsive element-binding protein 3-like protein 1; CR3L1_HUMAN; Creb3l1; Cyclic AMP responsive element binding protein 3 like protein 1; Old astrocyte specifically-induced substance; Processed cyclic AMP-responsive element-binding protein 3-like protein 1; anti-CREB3L1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CREB3L1, OASIS antibody detects endogenous levels of CREB3L1, OASIS.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	519
Applicable Applications for anti-CREB3L1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CREB3L1, OASIS.
Subcellular Location	Endoplasmic Reticulum Membrane and Nucleus. Under ER stress the cleaved N-terminal cytoplasmic domain translocates into the nucleus.
Tissue Specificity	Expressed in several tissues, with highest levels in pancreas and prostate. Expressed at relatively lower levels in brain.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA323085 at 1/100 staining Human gastric tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts from COLO 320, using CREB3L1, OASIS antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CREB3L1 antibody	Function: Transcription factor involved in unfolded protein response (UPR). Binds the DNA consensus sequence 5'-GTGXGCGXGC-3' (PubMed:21767813). In the absence of endoplasmic reticulum (ER) stress, inserted into ER membranes, with N-terminal DNA-binding and transcription activation domains oriented toward the cytosolic face of the membrane. In response to ER stress, 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 to effect transcription of specific target genes. Plays a critical role in bone formation through the transcription of COL1A1, and possibly COL1A2, and the secretion of bone matrix proteins. Directly binds to the UPR element (UPRE)-like sequence in an osteoblast-specific COL1A1 promoter region and induces its transcription. Does not regulate COL1A1 in other tissues, such as skin (By similarity). Required to protect astrocytes from ER stress-induced cell death. In astrocytes, binds to the cAMP response element (CRE) of the BiP/HSPA5 promoter and participate in its transcriptional activation (By similarity). Required for TGFB1 to activate genes involved in the assembly of collagen extracellular matrix (PubMed:25310401). Subunit Structure: Interacts with SMAD4, the interaction takes place upon TGFB1 induction and SMAD4 acts as CREB3L1 coactivator to induce the expression of genes involved in assembly of collagen extracellular matrix. Post-translational Modifications: Upon ER stress, translocated to the Golgi apparatus, where it is processed by regulated intramembrane proteolysis (RIP) to release the cytosol-facing N-terminal transcription factor domain. The cleavage is performed sequentially by site-1 and site-2 proteases (S1P/MBTPS1 and S2P/MBTPS2). RIP is induced by TGFB1 and ceramide (PubMed:25310401, PubMed:27499293). N-glycosylated. Ubiquitinated by HRD1/SYVN1; undergoes 'Lys-48'-linked ubiquitination, followed by rapid proteasomal degradation under normal conditions. Upon ER stress, SYVN1 E3 ubiquitin-protein ligase dissociates from its substrate, ubiquitination does not occur and CREB3L1 is stabilized. Similarity: Belongs to the bZIP family. ATF subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16418355
NCBI GeneID	90993
NCBI Accession #	NP_443086.1
NCBI GenBank Nucleotide #	NM_052854.3
UniProt Accession #	Q96BA8; Q8N2D5; Q96CP0
Molecular Weight	Observed: 55-58 kDa; 84 kDa Predicted: 58 kDa
NCBI Official Full Name	cyclic AMP-responsive element-binding protein 3-like protein 1
NCBI Official Synonym Full Names	cAMP responsive element binding protein 3 like 1
NCBI Official Symbol	CREB3L1

NCBI Official Synonym Symbols	OI16; OASIS
NCBI Protein Information	cyclic AMP-responsive element-binding protein 3-like protein 1
UniProt Protein Name	Cyclic AMP-responsive element-binding protein 3-like protein 1
UniProt Gene Name	CREB3L1
UniProt Synonym Gene Names	OASIS; cAMP-responsive element-binding protein 3-like protein 1; OASIS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/creb3l1-oasis-antibody-immunohistochemistry-western-blot-elisa/323085>