ARG42596
anti-CREB3L2 / BBF2H7 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes CREB3L2 / BBF2H7
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms, Cow, Dog
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	CREB3L2 / BBF2H7
Species	Human
Immunogen	Synthetic peptide around the internal region of Human CREB3L2 / BBF2H7. (C-HSLQEPYTASVVRS) (NP_919047.2)
Conjugation	Un-conjugated
Alternate Names	Cyclic AMP-responsive element-binding protein 3-like protein 2; BBF2 human homolog on chromosome 7; BBF2H7; cAMP-responsive element-binding protein 3-like protein 2

Application Instructions

Application table

Application	Dilution
WB	1 µg/ml

Application Note: WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Rat testis

Observed Size: ~ 53 kDa

Properties

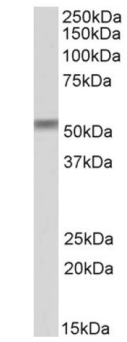
Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

	freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CREB3L2
Gene Full Name	cAMP responsive element binding protein 3-like 2
Background	This gene encodes a member of the oasis bZIP transcription factor family. Members of this family can dimerize but form homodimers only. The encoded protein is a transcriptional activator. Translocations between this gene on chromosome 7 and the gene fused in sarcoma on chromosome 16 can be found in some tumors. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
Function	Transcription factor involved in unfolded protein response (UPR). 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 chondrogenesis by activating the transcription of SEC23A, which promotes the transport and secretion of cartilage matrix proteins, and possibly that of ER biogenesis-related genes (By similarity). In a neuroblastoma cell line, protects cells from ER stress-induced death (PubMed:17178827). In vitro activates transcription of target genes via direct binding to the CRE site (PubMed:17178827). [UniProt]
Calculated Mw	57 kDa
PTM	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). 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 CREB3L2 is stabilized. [UniProt]
Cellular Localization	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. Processed cyclic AMP-responsive element-binding protein 3-like protein 2: Nucleus. Note=Upon ER stress, translocated into the nucleus. [UniProt]

Images



Rat testis

ARG42596 anti-CREB3L2 / BBF2H7 antibody WB image

Western blot: 35 µg of Rat testis lysate (in RIPA buffer) stained with ARG42596 anti-CREB3L2 / BBF2H7 antibody at 1 µg/ml dilution and incubated at RT for 1 hour.