

**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-HSLQEPYTASVRS) (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.<br>* 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        | Ammonium sulphate precipitation followed by affinity purification with immunogen.   |
| 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 |

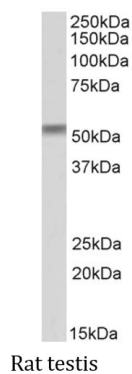
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

|                              |  |
|------------------------------|--|
| <b>Gene Symbol</b>           | CREB3L2  |
| <b>Gene Full Name</b>        | cAMP responsive element binding protein 3-like 2   |
| <b>Background</b>            | 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]  |
| <b>Function</b>              | 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] |
| <b>Calculated Mw</b>         | 57 kDa   |
| <b>PTM</b>                   | 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).<br><br>N-glycosylated.<br><br>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]  |
| <b>Cellular Localization</b> | 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



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.