# ARG42553
# anti-CREB3L3 / CREB-H antibody

Package: 100 µl
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Rabbit Polyclonal antibody recognizes CREB3L3 / CREB-H |
| Tested Reactivity | Hu |
| Tested Application | WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | CREB3L3 / CREB-H |
| Species | Human |
| Immunogen | KLH-conjugated synthetic peptide between aa. 244-274 of Human CREB3L3 / CREB-H. |
| Conjugation | Un-conjugated |
| Alternate Names | Cyclic AMP-responsive element-binding protein 3-like protein 3; Transcription factor CREB-H; cAMP-responsive element-binding protein 3-like protein 3; HYST1481; CREB-H; CREBH |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| WB | 1:1000 - 1:2000 |

| | |
|---|---|
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |
| Positive Control | Human liver |
| Observed Size | ~ 45 kDa |

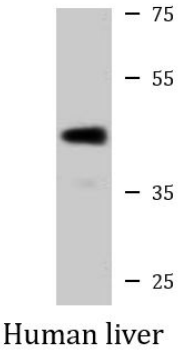
## Properties

| | |
|---|---|
| Form | Liquid |
| Purification | Purification with Protein A and immunogen peptide. |
| Buffer | PBS and 0.09% (W/V) Sodium azide. |
| Preservative | 0.09% (W/V) Sodium azide |
| 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 | CREB3L3 |
| Gene Full Name | cAMP responsive element binding protein 3-like 3 |
| Background | This gene encodes a member of the basic-leucine zipper family and the AMP-dependent transcription factor family. The encoded protein is localized to the endoplasmic reticulum and acts as a transcription factor activated by cyclic AMP stimulation. The encoded protein binds the cyclic AMP response element (CRE) and the box-B element and has been linked to acute inflammatory response, hepatocellular carcinoma, triglyceride metabolism, and hepcidin expression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012] |
| Function | Transcription factor that may act during endoplasmic reticulum stress by activating unfolded protein response target genes. Activated in response to cAMP stimulation. In vitro, binds to the cAMP response element (CRE) and box-B element. Activates transcription through box-B element. Activates transcription through CRE (By similarity). Seems to function synergistically with ATF6. In acute inflammatory response, may activate expression of acute phase response (APR) genes. May be involved in growth suppression. [UniProt] |
| Calculated Mw | 49 kDa |
| PTM | Controlled by regulated intramembrane proteolysis (RIP). Following ER stress a fragment containing the cytoplasmic transcription factor domain is released by proteolysis. The cleavage seems to be performed sequentially by site-1 and site-2 proteases (PS1 and PS2).<br><br>N- and O-glycosylated. N-glycosylation is required for optimal proteolytic activation. O-glycosylated with core 1 or possibly core 8 glycans. [UniProt] |
| Cellular Localization | Endoplasmic reticulum membrane; Single-pass type II membrane protein. Processed cyclic AMP-responsive element-binding protein 3-like protein 3: Nucleus. Note=Under ER stress the cleaved N-terminal cytoplasmic domain translocates into the nucleus. [UniProt] |

## Images




ARG42553 anti-CREB3L3 / CREB-H antibody WB image

Western blot: 20 µg of Human liver lysate stained with ARG42553 anti-CREB3L3 / CREB-H antibody at 1:1000 - 1:2000 dilution.