

# CREB3L2 Polyclonal Antibody

Catalog # AP69287

## **Product Information**

Application WB Primary Accession Q70SY1

Reactivity Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW57415

## **Additional Information**

**Gene ID** 64764

Other Names CREB3L2; BBF2H7; Cyclic AMP-responsive element-binding protein 3-like

protein 2; cAMP-responsive element-binding protein 3-like protein 2; BBF2

human homolog on chromosome 7

Dilution WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other

applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

## **Protein Information**

Name CREB3L2

Synonyms BBF2H7

**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).

#### **Cellular Location**

Endoplasmic reticulum membrane {ECO:0000250 | UniProtKB:Q8BH52}; 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. {ECO:0000250 | UniProtKB:Q8BH52}

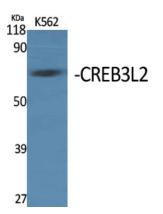
#### **Tissue Location**

Widely expressed with highest levels in placenta, lung, spleen and intestine, and lowest levels in heart, brain, skeletal muscle, thymus, colon and leukocytes. In fetal tissues, the weakest expression is detected in brain and heart

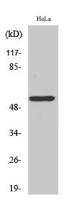
# **Background**

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).

# **Images**



Western Blot analysis of various cells using CREB3L2 Polyclonal Antibody



Western Blot analysis of HeLa cells using CREB3L2 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.