10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CREBL1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5101b

Specification

CREBL1 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q99941
Reactivity	**Human, Hamster, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**76709**
Antigen Region	**560-589**

CREBL1 Antibody (C-term) - Additional Information

Gene ID 1388

Other Names
Cyclic AMP-dependent transcription factor ATF-6 beta, cAMP-dependent transcription factor ATF-6 beta, Activating transcription factor 6 beta, ATF6-beta, Protein G13, cAMP response element-binding protein-related protein, Creb-rp, cAMP-responsive element-binding protein-like 1, Processed cyclic AMP-dependent transcription factor ATF-6 beta, ATF6B, CREBL1, G13

Target/Specificity
This CREBL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 560-589 amino acids from the C-terminal region of human CREBL1.

Dilution
WB~~1:1000
IHC-P~~1:25

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CREBL1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CREBL1 Antibody (C-term) - Protein Information

Name ATF6B

Synonyms CREBL1, G13

Function [Cyclic AMP-dependent transcription factor ATF-6 beta]: Precursor of the transcription factor form (Processed cyclic AMP- dependent transcription factor ATF-6 beta), which is embedded in the endoplasmic reticulum membrane (PubMed:11256944). Endoplasmic reticulum stress promotes processing of this form, releasing the transcription factor form that translocates into the nucleus, where it activates transcription of genes involved in the unfolded protein response (UPR) (PubMed:11256944).

Cellular Location
Endoplasmic reticulum membrane; Single-pass type II membrane protein

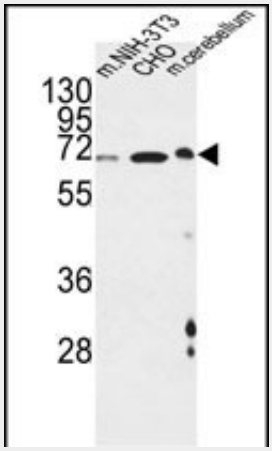
Tissue Location
Ubiquitous..

CREBL1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

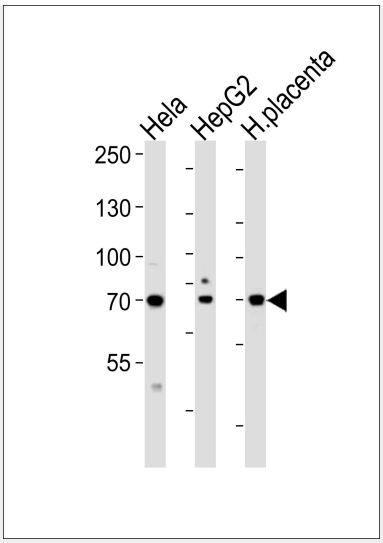
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CREBL1 Antibody (C-term) - Images

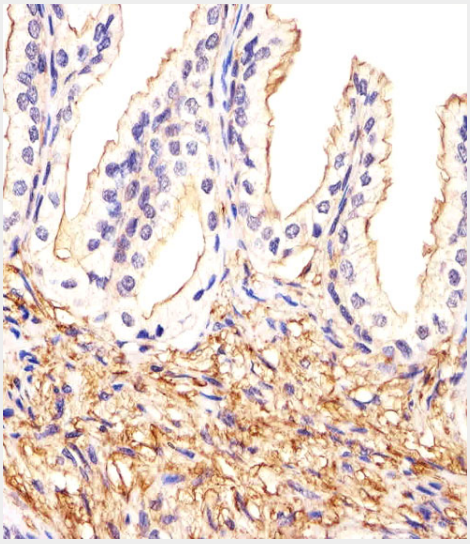


CREBL1 Antibody (C-term) (Cat. #AP5101b) western blot analysis in mouse NIH-3T3,CHO cell line and mouse cerebellum tissue lysates (35ug/lane).This demonstrates the CREBL1 antibody detected the CREBL1 protein (arrow).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

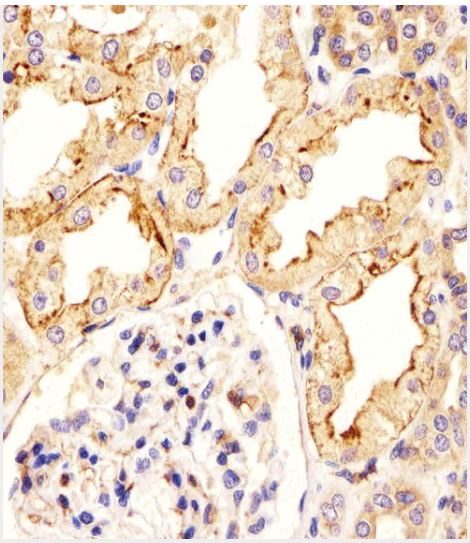


Western blot analysis of lysates from Hela, HepG2 cell line and human placenta tissue lysate (from left to right), using CREBL1Antibody (C-term) (Cat. #AP5101b). AP5101b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



Immunohistochemical analysis of paraffin-embedded H. prostate section using CREBL1 Antibody (C-term)(Cat#AP5101b). AP5101b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Immunohistochemical analysis of paraffin-embedded H. kidney section using CREBL1 Antibody (C-term)(Cat#AP5101b). AP5101b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

CREBL1 Antibody (C-term) - Background

CREBL1 is a transcription factor in the unfolded protein response (UPR) pathway during ER stress. Either as a homodimer or as a heterodimer with ATF6-alpha, the encoded protein binds to the ER stress response element, interacting with nuclear transcription factor Y to activate UPR target genes. The protein is normally found in the membrane of the endoplasmic reticulum; however, under ER stress, the N-terminal cytoplasmic domain is cleaved from the rest of the protein and translocates to the nucleus.

CREBL1 Antibody (C-term) - References

Guan, D., et al. J. Cell. Biochem. 108(4):825-831(2009)
Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009)
Thuerauf, D.J., et al. J. Biol. Chem. 279(20):21078-21084(2004)

CREBL1 Antibody (C-term) - Citations

- Midazolam regulated caspase pathway, endoplasmic reticulum stress, autophagy, and cell cycle to induce apoptosis in MA-10 mouse Leydig tumor cells.