

CREB3 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21435b

Specification

CREB3 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O43889
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	41379

CREB3 Antibody (C-term) - Additional Information

Gene ID 10488

Other Names

Cyclic AMP-responsive element-binding protein 3, CREB-3, cAMP-responsive element-binding protein 3, Leucine zipper protein, Luman, Transcription factor LZIP-alpha, Processed cyclic AMP-responsive element-binding protein 3, N-terminal Luman, Transcriptionally active form, CREB3, LZIP

Target/Specificity

This CREB3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 311-344 amino acids from the C-terminal region of human CREB3.

Dilution

WB~~1:8000

E~~Use at an assay dependent concentration.

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

CREB3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CREB3 Antibody (C-term) - Protein Information

Name CREB3

Synonyms LZIP

Function Endoplasmic reticulum (ER)-bound sequence-specific transcription factor that directly binds DNA and activates transcription (PubMed:[10984507](#), PubMed:[15845366](#), PubMed:[16940180](#), PubMed:[19779205](#), PubMed:[9271389](#)). Plays a role in the unfolded protein response (UPR), promoting cell survival versus ER stress-induced apoptotic cell death (PubMed:[15845366](#), PubMed:[16940180](#)). Also involved in cell proliferation, migration and differentiation, tumor suppression and inflammatory gene expression. Acts as a positive regulator of LKN-1/CCL15-induced chemotaxis signaling of leukocyte cell migration (PubMed:[15001559](#), PubMed:[17296613](#), PubMed:[19779205](#)). Associates with chromatin to the HERPUD1 promoter (PubMed:[16940180](#)). Also induces transcriptional activation of chemokine receptors (PubMed:[17296613](#), PubMed:[18587271](#)).

Cellular Location

[Isoform 1]: Endoplasmic reticulum membrane; Single-pass type II membrane protein {ECO:0000255, ECO:0000269|PubMed:12138176}. Golgi apparatus. Note=Colocalizes with HCFC1 in neuronal cell bodies of the trigeminal ganglia (PubMed:10623756). Colocalizes with DCSTAMP in the ER membrane of immature dendritic cell (DC) (PubMed:20546900). Colocalizes with CANX, CCR1, HCFC1 in the ER membrane (PubMed:10623756). [Isoform 2]: Nucleus. Cytoplasm Note=Predominantly in the nucleus (PubMed:19779205). Not associated with membranes (PubMed:19779205).

Tissue Location

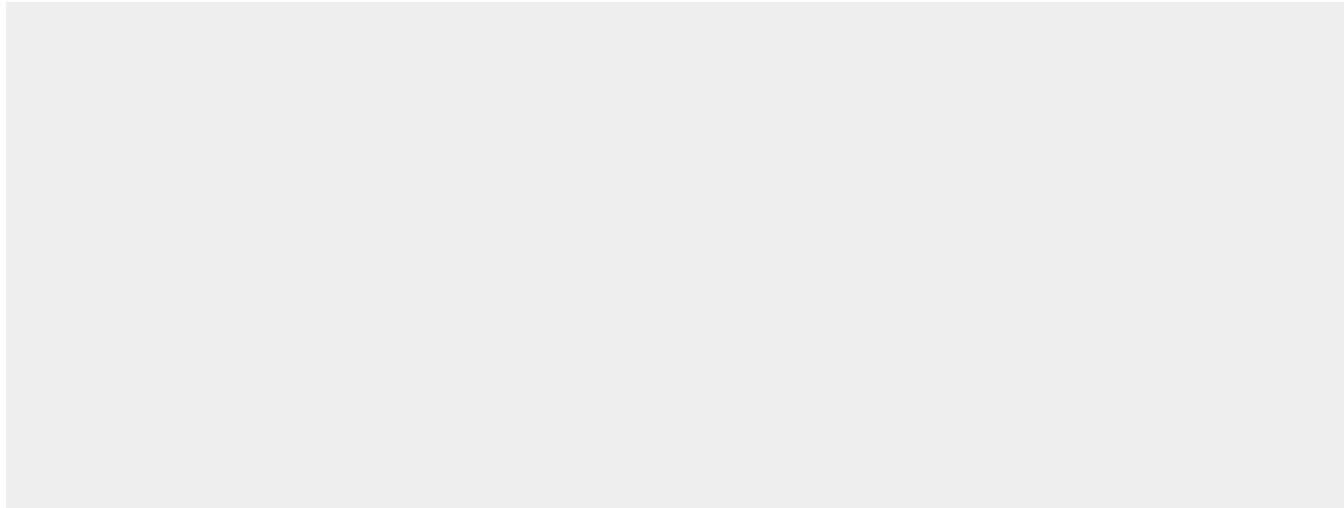
Ubiquitously expressed (PubMed:19779205, PubMed:9271389). Expressed in dendritic cells (DC). Weakly expressed in monocytes (at protein level) (PubMed:20546900)

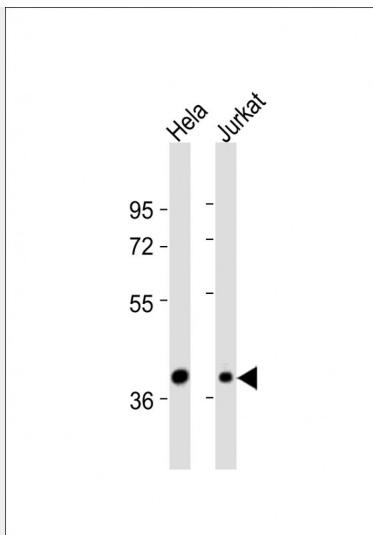
CREB3 Antibody (C-term) - Protocols

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

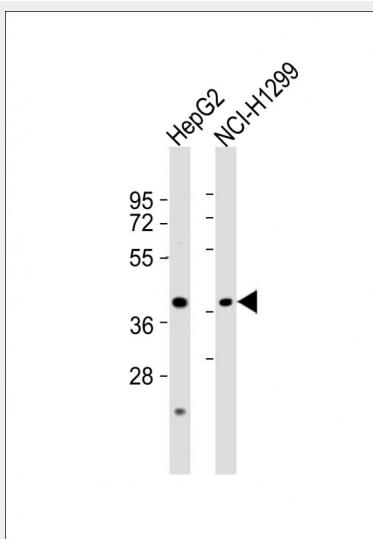
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CREB3 Antibody (C-term) - Images





All lanes : Anti-CREB3 Antibody (C-term) at 1:8000 dilution Lane 1: HeLa whole cell lysates Lane 2: Jurkat whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-CREB3 Antibody (C-term) at 1:8000 dilution Lane 1: HepG2 whole cell lysates Lane 2: NCI-H1299 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

CREB3 Antibody (C-term) - Background

Endoplasmic reticulum (ER)-bound transcription factor that plays a role in the unfolded protein response (UPR). Involved in cell proliferation and migration, tumor suppression and inflammatory gene expression. Plays also a role in the human immunodeficiency virus type 1 (HIV-1) virus protein expression and in the herpes simplex virus-1 (HSV-1) latent infection and reactivation from latency. Isoform 2 plays a role in the unfolded protein response (UPR). Isoform 2 acts as a positive regulator of LKN-1/CCL15-induced chemotaxis signaling of leukocyte cell migration. Isoform 2 may play a role as a cellular tumor suppressor that is targeted by the hepatitis C virus (HSV) core protein. Isoform 2 represses the VP16-mediated transactivation of immediate early genes of the HSV-1 virus by sequestering host cell factor-1 HCFC1 in the ER membrane of sensory neurons, thereby preventing the initiation of the replicative cascade leading to latent infection. Isoform 3 functions as a negative

transcriptional regulator in ligand-induced transcriptional activation of the glucocorticoid receptor NR3C1 by recruiting and activating histone deacetylases (HDAC1, HDAC2 and HDAC6). Isoform 3 decreases the acetylation level of histone H4. Isoform 3 does not promote the chemotactic activity of leukocyte cells.

CREB3 Antibody (C-term) - References

Lu R.,et al.Mol. Cell. Biol. 17:5117-5126(1997).
Freiman R.N.,et al.Genes Dev. 11:3122-3127(1997).
Jin D.-Y.,et al.EMBO J. 19:729-740(2000).
Kang H.,et al.Mol. Endocrinol. 23:1746-1757(2009).
Hayashi M.,et al.Submitted (FEB-1997) to the EMBL/GenBank/DDBJ databases.