

# CREB3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21435b

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">O43889</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB50244
<b>Calculated MW</b>	41379

## Additional Information

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<b>Gene ID</b>	10488
<b>Other Names</b>	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
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:8000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	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.
<b>Precautions</b>	CREB3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CREB3
<b>Synonyms</b>	LZIP
<b>Function</b>	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)

## Background

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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.

## References

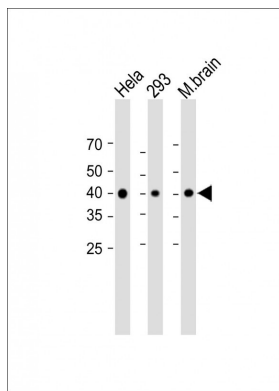
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Freiman R.N.,et al.Genes Dev. 11:3122-3127(1997).  
Jin D.-Y.,et al.EMBO J. 19:729-740(2000).  
Kang H.,et al.Mol. Endocrinol. 23:1746-1757(2009).  
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## Images

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All lanes: Anti-CREB3 Antibody (C-term) at 1:2000 dilution  
Lane 1: Hela whole cell lysate Lane 2: 293 whole cell lysate Lane 3: Mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L),



Peroxidase conjugated (ASP1615) at 1/15000 dilution.  
Observed band size: 41 KDa Blocking/Dilution buffer: 5%  
NFDM/TBST.

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