

**CREB3 Blocking Peptide (C-term)**  
**Synthetic peptide**  
**Catalog # BP21435b****Specification**

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**CREB3 Blocking Peptide (C-term) - Product Information**Primary Accession [O43889](#)**CREB3 Blocking Peptide (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**

The synthetic peptide sequence is selected from aa 311-324 of HUMAN CREB3

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CREB3 Blocking Peptide (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](http://www.uniprot.org/citations/10984507)), PubMed: [15845366](http://www.uniprot.org/citations/15845366)), PubMed: [16940180](http://www.uniprot.org/citations/16940180)), PubMed: [19779205](http://www.uniprot.org/citations/19779205)), PubMed: [9271389](http://www.uniprot.org/citations/9271389)). Plays a role in the unfolded protein response (UPR), promoting cell survival versus ER stress-induced apoptotic cell death (PubMed: [15845366](http://www.uniprot.org/citations/15845366)), PubMed: [16940180](http://www.uniprot.org/citations/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:<a href="http://www.uniprot.org/citations/15001559" target="\_blank">15001559</a>, PubMed:<a href="http://www.uniprot.org/citations/17296613" target="\_blank">17296613</a>, PubMed:<a href="http://www.uniprot.org/citations/19779205" target="\_blank">19779205</a>). Associates with chromatin to the HERPUD1 promoter (PubMed:<a href="http://www.uniprot.org/citations/16940180" target="\_blank">16940180</a>). Also induces transcriptional activation of chemokine receptors (PubMed:<a href="http://www.uniprot.org/citations/17296613" target="\_blank">17296613</a>, PubMed:<a href="http://www.uniprot.org/citations/18587271" target="\_blank">18587271</a>).

### 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 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

### CREB3 Blocking Peptide (C-term) - Images

### CREB3 Blocking Peptide (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 Blocking Peptide (C-term) - References

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