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CRTC3 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6633b

Specification

CRTC3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q6UUV7

CRTC3 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 64784

Other Names
CREB-regulated transcription coactivator 3, Transducer of regulated cAMP response element-binding protein 3, TORC-3, Transducer of CREB protein 3, CRTC3, TORC3

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6633b was selected from the C-term region of human CRTC3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

CRTC3 Antibody (C-term) Blocking Peptide - Protein Information

Name CRTC3

Synonyms TORC3

Function
Transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites. Acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated and acts independently of CREB1 'Ser-133' phosphorylation. Enhances the interaction of CREB1 with TAF4. Regulates the expression of specific CREB-activated genes such as the steroidogenic gene, StAR. Potent coactivator of PPARGC1A and inducer of mitochondrial biogenesis in muscle cells. Also coactivator for TAX activation of the human T-cell leukemia virus type 1 (HTLV-1) long terminal repeats (LTR).

Cellular Location

Nucleus. Cytoplasm. Note=Appears to be mainly nuclear (PubMed:15454081). Translocates to the nucleus following adenylyl cyclase or MAP kinase activation (PubMed:30611118)

Tissue Location
Predominantly expressed in B and T lymphocytes. Highest levels in lung. Also expressed in brain, colon, heart, kidney, ovary, and prostate. Weak expression in liver, pancreas, muscle, small intestine, spleen and stomach.

CRTC3 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CRTC3 Antibody (C-term) Blocking Peptide - Images

CRTC3 Antibody (C-term) Blocking Peptide - Background

CRTC3 is a transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites. The protein acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated and acts independently of CREB1 'Ser-133' phosphorylation. The protein nnhances the interaction of CREB1 with TAF4. Regulates the expression of specific CREB-activated genes such as the steroidogenic gene, StAR. It is a potent coactivator of PPARGC1A and inducer of mitochondrial biogenesis in muscle cells. It ia also a coactivator for TAX activation of the human T-cell leukemia virus type 1 (HTLV-1) long terminal repeats (LTR).

CRTC3 Antibody (C-term) Blocking Peptide - References

Fehr,A., Genes Chromosomes Cancer 47 (3), 203-206 (2008)Wu,Z., Proc. Natl. Acad. Sci. U.S.A. 103 (39), 14379-14384 (2006)