

CREB Antibody

Rabbit mAb Catalog # AP90452

Specification

CREB Antibody - Product Information

Application WB, IHC, FC, ICC, IP

Primary Accession P16220
Reactivity Rat

Clonality Monoclonal

Other Names

cAMP responsive element binding protein 1; cAMP-response element binding protein; CREB-1;

CREB1

Isotype Rabbit IgG
Host Rabbit
Calculated MW 35136 Da

CREB Antibody - Additional Information

Dilution WB~~1:1000

IHC~~1:100~500 FC~~1:10~50 ICC~~N/A IP~~N/A

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

CREB

Description This gene encodes a transcription factor

that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. Alternate splicing of this gene results in two transcript variants encoding

different isoforms.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline ,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

CREB Antibody - Protein Information

Name CREB1



Function

Phosphorylation-dependent transcription factor that stimulates transcription upon binding to the DNA cAMP response element (CRE), a sequence present in many viral and cellular promoters (By similarity). Transcription activation is enhanced by the TORC coactivators which act independently of Ser-119 phosphorylation (PubMed:14536081). Involved in different cellular processes including the synchronization of circadian rhythmicity and the differentiation of adipose cells (By similarity). Regulates the expression of apoptotic and inflammatory response factors in cardiomyocytes in response to ERFE-mediated activation of AKT signaling (By similarity).

Cellular Location

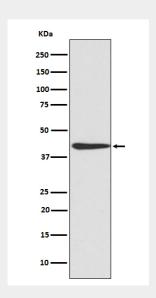
 $Nucleus~\{ECO:0000255|PROSITE-ProRule:PRU00312,~ECO:0000255|PROSITE-ProRule:PRU00978,~ECO:0000269|PubMed:12552083\}$

CREB Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

CREB Antibody - Images



Western blot analysis of CREB expression in NIH/3T3 cell lysate.