10320 Camino Santa Fe, Suite G
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CREB Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10263

Specification

CREB Antibody - Product Information

Application	**WB**
Primary Accession	P15337
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**35081**

CREB Antibody - Additional Information

Gene ID 81646

Application & Usage	**Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes 43 kDa CREB from samples of human, mouse and rat origins.**

Other Names
CREB-1, cAMP-response Element-binding Protein-1, CREB1 , CREB, MGC9284

Target/Specificity
CREB

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
CREB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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CREB Antibody - Protein Information

Name Creb1

Synonyms Creb-1

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 (By similarity). 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 (PubMed:30566056).

Cellular Location
Nucleus.

CREB Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CREB Antibody - Images

CREB Antibody - Background

Transcription factor CREB binds the cAMP response element (CRE) and activates transcription in response to a variety of extracellular signals including neurotransmitters, hormones, membrane depolarization, and growth or neurotrophic factors. Protein kinase A and the calmodulin-dependent protein kinase CaMKII stimulate CREB phosphorylation at Ser133, a key regulatory site controlling transcriptional activity. Phosphorylation at Ser133 is also mediated by p44/42 MAP kinase, p90RSK, p38 MAP kinase and MSK1. CREB appears to play an important role in learning and memory in both flies and mice.