

Anti-CREB Picoband Antibody

Catalog # ABO11807

Product Information

Application	WB
Primary Accession	P16220
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Cyclic AMP-responsive element-binding protein 1(CREB1) detection. Tested with WB in Human;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	1385
Other Names	Cyclic AMP-responsive element-binding protein 1, CREB-1, cAMP-responsive element-binding protein 1, CREB1
Calculated MW	35136
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	Nucleus .
Source	Eukaryota
Protein Name	Cyclic AMP-responsive element-binding protein 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human CREB recombinant protein (Position: M1-T177). Human CREB shares 99% and 98% amino acid (aa) sequences identity with mouse and rat CREB, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the bZIP family.

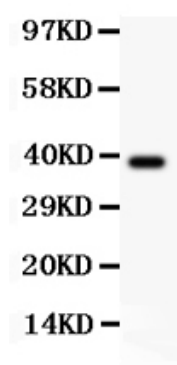
Protein Information

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}

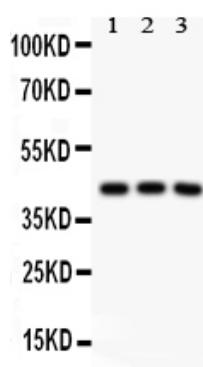
Background

CREB1, also known as cAMP responsive element binding protein 1, is a protein that in humans is encoded by the CREB1 gene. It is mapped to 2q33.3. This protein binds the cAMP response element, a DNA nucleotide sequence present in many viral and cellular promoters. The binding of CREB1 stimulates transcription. This protein is a CREB 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.

Images



Anti-CREB Picoband antibody, ABO11807-1.jpg
All lanes:
Anti CREB (ABO11807) at 0.5ug/ml
WB: Recombinant Human CREB Protein 0.5ng
Predicted bind size: 38KD
Observed bind size: 38KD



Anti-CREB Picoband antibody, ABO11807-2.jpg
All lanes:
Anti CREB (ABO11807) at 0.5ug/ml
Lane 1: Rat Thymus Tissue Lysate at 50ug
Lane 2: Rat Brain Tissue Lysate at 50ug
Lane 3: HT1080 Whole Cell Lysate at 40ug
Predicted bind size: 43KD
Observed bind size: 43KD

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