

## **Rabbit Anti-CREB1 Polyclonal Antibody**

CPB-1150RH Rabbit(CREB1)
Lot. No. (See product label)

## PRODUCT INFORMATION

Product Overview Rabbit Anti-CREB1 Polyclonal Antibody

Antigen Description CREB1 is a transcription factor that is a member of the bZIP family of DNA binding proteins. It binds as

a homodimer to the CRE (CAMP-Responsive Element), an octameric palindrome containing a conserved core sequence, 5-prime-TGACG-3-prime. It consists of two transcript variants encoding respective isoforms produced by alternate splicing. It is mapped to 2q32.3-q34. It is phosphorylated by several protein kinases and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. CREB1 is crucial for the consolidation of long-term conditioned fear memories, but not for encoding, storage, or retrieval of these memories. It is required for the stability of reactivated or

retrieved conditioned fear memories.

**specificity** The antibody detects endogenous level of total CREB1 protein.

Target CREB1

Immunogen Peptide sequence around aa. 127~131 (I-L-S-R-R) derived from Human CREB1.

Host Rabbit
Species Human

Cross Reactivity Human; Mouse; Rat

conjugation N/A
Applications WB,IHC

## **PACKAGING**

Format Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,

0.02% sodium azide and 50% glycerol.

**Storage** Store at -20°C/1 year

## **ANTIGEN GENE INFORMATION**

Gene Name CREB1 cAMP responsive element binding protein 1 [ Homo sapiens ]

Official Symbol CREB1

Synonyms CREB1; cAMP responsive element binding protein 1; cyclic AMP-responsive element-binding protein

1; CREB-1; transactivator protein; active transcription factor CREB; cAMP-response element-binding

protein-1; cAMP-responsive element-binding protein 1; CREB; MGC9284;

GenelD 1385

mRNA Refseq NM\_004379

Protein Refseq NP\_004370

 MIM
 123810

 UniProt ID
 P16220

 Chromosome Location
 2q34



Pathway

AKT phosphorylates targets in the nucleus, organism-specific biosystem; ATF-2 transcription factor network, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem;

**Function** 

RNA polymerase II activating transcription factor binding; RNA polymerase II distal enhancer sequence-specific DNA binding; RNA polymerase II transcription factor binding transcription factor activity involved in positive regulation of transcription; cAMP response element binding; double-stranded DNA binding; protein binding; protein dimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription cofactor activity; transcription factor binding;