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CREB1

Reactivity: Human Mouse Rat Monkey

Tested applications:WB IHC IF IP FC

Recommended Dilution:WB 1:1000 - 1:4000 IHC 1:50 - 1:200 IF 1:50 - 1:100 IP 1:20 - 1:50 FC 1:20 - 1:50

Calculated MW:35kd

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human CREB1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

hikq

Synonym:

CREB ; CREB1; CREB 1

Catalog #:A0011

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:1385

Isotype: IgG

Swiss Prot:P16220

Purity: Affinity purification

For research use only.

Background:

CREB1 is a bZIP transcription factor that activates target genes through cAMP response elements. CREB1 is able to mediate signals from numerous physiological stimuli, resulting in regulation of a broad array of cellular responses. While CREB1 is expressed in numerous tissues, it plays a large regulatory role in the nervous system. CREB1 is believed to play a key role in promoting neuronal survival, precursor proliferation, neurite outgrowth, and neuronal differentiation in certain neuronal populations (1-3). Additionally, CREB1 signaling is involved in learning and memory in several organisms (4-6). CREB1 is able to selectively activate numerous downstream genes through interactions with different dimerization partners. CREB1 is activated by phosphorylation at Ser133 by various signaling pathways including Erk, Ca2+, and stress signaling. Some of the kinases involved in phosphorylating CREB1 at Ser133 are p90RSK, MSK, CaMKIV, and MAPKAPK-2 (7-9).

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