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Phospho-CREB1-S133

Reactivity: Human

Tested applications:WB IF

Recommended Dilution:WB 1:200 - 1:2000 IF 1:50 - 1:100

Calculated MW:43kDa

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding Ser133 of human CREB

Storage Buffer:

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

Concentration:

hikq

Synonym:

CREB1; CREB; MGC9284;

Catalog #:AP0019

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:1385

Isotype: IgG

Swiss Prot: P16220

Purity: Affinity purification

For research use only.

Background:

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

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