

## 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, Ca<sup>2+</sup>, 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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