
Phospho-CREB-1 (Ser133) Antibody

Subcategory: Rabbit Polyclonal Antibody, Phosphospecific Antibody

Cat. No.: 250813

Unit: 0.1 mg

Description:

The ATF/CREB family consists of transcription factors that function through binding to the cAMP responsive element (CRE) palindromic octanucleotide, TGACCTCA, a sequence present in many viral and cellular promoters. The best characterized members of this gene family include CREB-1, CREB-2, ATF-1, ATF-2, ATF-3 and ATF-4. These transcription factors share highly-related COOH terminal leucine zipper dimerization and basic DNA binding but are highly divergent in their amino terminal domains. Although each of the ATF/CREB proteins bind CREs in their homodimeric form, in certain instances they also bind as heterodimers, both within the ATF/CREB family and with members of the AP-1 transcription factor family. It has recently been shown that protein kinase A-mediated CREB phosphorylation results in its binding to a 265-kDa nuclear protein designated CBP (CREB-binding protein), which represents a CREB co-activator. Phosphorylation of Ser-133 is key for CREB transcriptional activity.

Isotype: Rabbit Ig

Applications: E, WB, IHC

Species Reactivity: H, M, R

Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4 with 0.09% sodium azide. Antibody was purified by Protein-G affinity chromatography.

Alternate Names: cAMP response element-binding protein; CREB; CREB1

Accession No.: P16220

Antigen: KLH-conjugated synthetic phosphopeptide encompassing a sequence surrounding Ser-133 region of human CREB1.

Application Notes: E: 1:500-1:1,000; WB: 1:200-1:500; IHC: 1:200-1:500

Storage: Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.