



CREB, CREB (Ser133) Polyclonal Antibody

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Box 1 | Basic Info

Cat. No.	ABP-PAB-21005
Animal ID	N/A
Host	Rabbit
Reactivity	Human, Mouse, Rat
Format	Affinity Purified
Accession number	N/A
Amount	100 µl

Alternative Name(s):

N/A

References:

1. Abel T et al. Brain Res Rev (1998) 26:360-378.
2. Hunter T et al. Cell (1992) 70: 375-387.
3. Johannessen M et al. Cellular Signaling (2004) 16:1211-1227.

It is well known that the control of gene expression involves activation of protein kinase cascades that regulate transcription factors within the nucleus. The cyclic AMP response element binding protein (CREB) is one of the best characterized stimulus-induced transcription factors. This transcription factor is a component of intracellular signaling events that regulate a wide range of biological functions, from spermatogenesis to circadian rhythms and memory. A variety of protein kinases including protein kinase A (PKA), mitogen-activated protein kinases (MAPKs), and Ca²⁺/calmodulin-dependent protein kinases (CaMKs), phosphorylate CREB at serine 133 (Ser133), and phosphorylation of Ser133 is required for CREB-mediated transcription.

Buffers

100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.

Immunogen

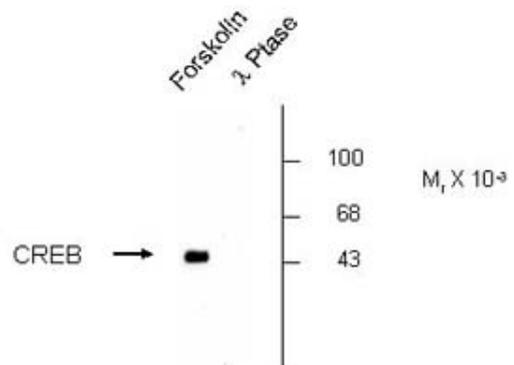
Synthetic phosphopeptide corresponding to amino acid residues surrounding the phosphorylated Ser133 of CREB. Human, mouse and rat have 100% amino acid sequence identity with the antigen used to raise the antibody.

Application

WB: 1:1,000.

Storage

For long term storage -20°C is recommended. Stable at -20°C for at least 1 year.



Western Blot: The lane at the left shows a Western blot of a lysate of a rat hippocampal brain slice that had been incubated in the presence of forskolin. The lane at the right shows labeling of this lysate after it had been subsequently incubated in the presence of phosphatase.