

CREB Polyclonal Antibody

CATALOG #: 3360-200

AMOUNT: 200 µl

LOT #: _____

HOST: Rabbit

IMMUNOGEN: Recombinant human CREB

FORMULATION:

200 µl immunoaffinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% thimerosal.

SPECIES REACTIVITY: human, mouse, rat

STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

DESCRIPTION:

Transcription factor CREB binds the cAMP response element (CRE) and activates transcription in response to a variety of extracellular signals including neurotransmitters, hormones, membrane depolarization, and growth or neurotrophic factors. Protein kinase A and the calmodulin-dependent protein kinase CaMKII stimulate CREB phosphorylation at Ser133, a key regulatory site controlling transcriptional activity. Phosphorylation at Ser133 is also mediated by p44/42 MAP kinase, p90RSK, p38 MAP kinase and MSK1. CREB appears to play an important role in learning and memory in both flies and mice.

SPECIFICITY: The antibody recognizes 42 kDa CREB of human, mouse and rat origins.

APPLICATION:

Western blotting (1:200-1000), immunoprecipitation (1:50-100), immunohistochemistry (1:20-100). However, the optimal concentrations should be determined individually.

USAGE: For Research Use Only. Not to be used in human.

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