



E91189

CREB1 Polyclonal Antibody

- Catalog Number:** E91189
- Amount:** 100ul
- 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).
- Species:** Rabbit
- Isotype:** IgG
- Storage/Stability:** Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
- Synonyms:** CREB1;CREB;MGC9284 ;
- Immunogen:** Recombinant protein of human CREB1
- Purification:** Affinity purification
- Reactivity:** H M R
- Applications:** WB IHC
- Molecular Weight:** 35kDa
- Swiss-Prot No. :** P16220
- Gene ID:** 1385
- References:** 1. Lonze, B.E. et al. (2002) Neuron 34, 371-85. 2. Lee, M.M. et al. (1999) J Neurosci Res 55, 702-12. 3. Redmond, L. et al. (2002) Neuron 34, 999-1010. 4. Dash, P.K. et al. (1990) Nature 345, 718-21. 5. Yin, J.C. et al. (1994) Cell 79, 49-58. 6. Guzowski, J.F. and McGaugh, J.L. (1997) Proc Natl Acad Sci USA 94, 2693-8. 7. Xing, J. et al. (1998) Mol Cell Biol 18, 1946-55. 8. Ribar, T.J. et al. (2000) J Neurosci 20, RC107. 9. Tan, Y. et al. (1996) EMBO J 15, 4629-42

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