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CREB (48H2) Rabbit mAb (PE Conjugate)



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: FC-FP	Reactivity: H M R Mk Dm	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P16220	Entrez-Gene Id: 1385
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
Specificity / Sensitivity	CREB (48H2) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total CREB-1 protein. The antibody does not cross-react with other ATF/CREB family members.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human CREB-1 protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated CREB (48H2) Rabbit mAb #9197.	
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 ²⁺ , and stress signaling. Some of the kinases involved in phosphorylating CREB at Ser133 are p90RSK, MSK, CaMKIV, and MAPKAPK-2 (7-9).	
Background References	<ol style="list-style-type: none"> 1. Lonze, B.E. et al. (2002) <i>Neuron</i> 34, 371-85. 2. Lee, M.M. et al. (1999) <i>J Neurosci Res</i> 55, 702-12. 3. Redmond, L. et al. (2002) <i>Neuron</i> 34, 999-1010. 4. Dash, P.K. et al. (1990) <i>Nature</i> 345, 718-21. 5. Yin, J.C. et al. (1994) <i>Cell</i> 79, 49-58. 6. Guzowski, J.F. and McGaugh, J.L. (1997) <i>Proc Natl Acad Sci USA</i> 94, 2693-8. 7. Xing, J. et al. (1998) <i>Mol Cell Biol</i> 18, 1946-55. 8. Ribar, T.J. et al. (2000) <i>J Neurosci</i> 20, RC107. 9. Tan, Y. et al. (1996) <i>EMBO J</i> 15, 4629-42. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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