

CREB (48H2) Rabbit mAb (Sepharose® **Bead Conjugate**)



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Applications: IP	Reactivity: H M R Mk Dm	Sensitivity: Endogenous	MW (kDa): 43	Source/Isotype: Rabbit IgG	UniProt ID: #P16220	Entrez-Gene Id: 1385
Product Usage Information		Application Immunoprecipitation			Dilution 1:20	
Storage		Supplied in 10 mM sod Do not aliquot the anti		s), 150 mM NaCl, 100 μg,	/ml BSA, 50% glycei	ol. Store at –20°C.
Specificity/Sensitivity		CREB (48H2) Rabbit mAb (Sepharose [®] Bead Conjugate) detects endogenous levels of total CREB protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a GST-CREB full length fusion protein.				
Description		groups to N-hydroxysu immunoprecipitation o	ccinimide (NHS)-a f CREB. CST expec	oody is immobilized via c ctivated Sepharose [®] bea ts that CREB (48H2) Rabl vity as the unconjugated	ads. It is useful for t bit mAb (Sepharose	he [®] Bead Conjugate)
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		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 Reactiv	rity	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).

Applications Key

IP: Immunoprecipitation

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey Dm: D. melanogaster

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