

Phospho-CREB (Ser133) (87G3) Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P16220	Entrez-Gene Id: 1385
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		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. <i>Do not aliquot the antibodies. Protect from light. Do not freeze.</i>			
Specificity/Sensitivity		Phospho-CREB (Ser133) (87G3) Rabbit mAb (PE Conjugate) detects endogenous levels of CREB only when phosphorylated at Ser133. The antibody also detects the phosphorylated form of the CREB-related protein, ATF-1.			
Species predicte based on 100% s homology		Zebrafish			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser133 of human CREB protein.			
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-CREB (Ser133) (87G3) Rabbit mAb #9198.				
CREB is a bZIP transcription factor that activates target genes through cAMP response is able to mediate signals from numerous physiological stimuli, resulting in regulation of cellular responses. While CREB is expressed in numerous tissues, it plays a large registing the nervous system. CREB is believed to play a key role in promoting neuronal survival, proliferation, neurite outgrowth, and neuronal differentiation in certain neuronal popula Additionally, CREB signaling is involved in learning and memory in several organisms (4 to selectively activate numerous downstream genes through interactions with different partners. CREB is activated by phosphorylation at Ser133 by various signaling pathway. Ca ²⁺ , and stress signaling. Some of the kinases involved in phosphorylating CREB at Se MSK, CaMKIV, and MAPKAPK-2 (7-9).				ing in regulation of a broad array plays a large regulatory role in euronal survival, precursor in neuronal populations (1-3). Teral organisms (4-6). CREB is able ons with different dimerization gnaling pathways, including Erk,	
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 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

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