

Phospho-CREB (Ser133) (87G3) Rabbit mAb (Alexa Fluor® 647 Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-F, IF-IC, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P16220	Entrez-Gene Id: 1385
Product Usage Information		Application Immunofluorescence (Frozen) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)		Dilution 1:50 - 1:200 1:100 - 1:400 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 antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		Phospho-CREB (Ser133) (87G3) Rabbit mAb (Alexa Fluor $^{\$}$ 647 Conjugate) recognizes endogenous levels of CREB only when phosphorylated at Ser133. The antibody also recognizes the phosphorylated form of the CREB-related protein, ATF-1.			
Species predicted based on 100% se 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 Alexa Fluor [®] 647 fluorescent dye and tested in-house for direct flow cytometry analysis in human cells and immunofluorescence analysis in human cells and rat tissue. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-CREB (Ser133) (87G3) Rabbit mAb #9198.			
Background CREB is a bZIP transcription factor that activates target genes through cAMP r is able to mediate signals from numerous physiological stimuli, resulting in case of cellular responses. While CREB is expressed in numerous tissues, it plays a the nervous system. CREB is believed to play a key role in promoting neuronal proliferation, neurite outgrowth, and neuronal differentiation in certain neuronal diff				ing in regulation of a broad array plays a large regulatory role in leuronal survival, precursor in neuronal populations (1-3). Peral organisms (4-6). CREB is able ons with different dimerization gnaling pathways, including Erk,	
Background Refe	rences	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

IF-F: Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow

Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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