

## ¥9187

## Phospho-CREB (Ser133) (87G3) Rabbit mAb (Alexa Fluor® 488 Conjugate)



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

<b>Applications:</b> FC-FP	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P16220	Entrez-Gene Id: 1385
Product Usage Information		<b>Application</b> Flow Cytometry (Fixed/F	Permeabilized)		<b>Dilution</b> 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/Sensiti	vity	Phospho-CREB (Ser133) (87G3) (Alexa Fluor <sup>®</sup> 488 Conjugate) Rabbit mAb detects endogenous levels of CREB only when phosphorylated at serine 133. The antibody also detects the phosphorylated form of the CREB-related protein, ATF-1.			
<b>Source / Purification</b> Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser133 of human CREB. The antibody was conjugated Fluor <sup>®</sup> 488 under optimal conditions with an F/P ratio of 2-6.					
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 488 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human and mouse cells. The 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 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 <sup>2+</sup> , and stress signaling. Some of the kinases involved in phosphorylating CREB at Ser133 are p90RSK, MSK, CaMKIV, and MAPKAPK-2 (7-9).			
Background Refer	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.				693-8.

**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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