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



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

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	Ар	Application		Dilu	Dilution	
Information	Imr	munofluorescence	(Frozen)	1:10	1:100 - 1:400	
	Imr	Immunofluorescence (Immunocytochemistry)		1:10	1:100 - 1:400	
	Flo	Flow Cytometry (Fixed/Permeabilized)		1:50	1:50	
Storage	•		.2), less than 0.1% sodium azide light. Do not freeze.	and 2 mg/ml BSA. Store at 4°0	C. Do not aliquot the	
Specificity / Sensi	of C	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 react based on 10 sequence homolo	0%	rafish				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser133 of human CREB protein.				
Product Description	hou: and	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested inhouse 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	able cellu nerv prol Add to so part Ca ²	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 Refe	2. Lo 3. R 4. D 5. Y 6. G 7. X	 Lonze, B.E. et al. (2002) Neuron 34, 371-85. Lee, M.M. et al. (1999) J Neurosci Res 55, 702-12. Redmond, L. et al. (2002) Neuron 34, 999-1010. Dash, P.K. et al. (1990) Nature 345, 718-21. Yin, J.C. et al. (1994) Cell 79, 49-58. Guzowski, J.F. and McGaugh, J.L. (1997) Proc Natl Acad Sci USA 94, 2693-8. Xing, J. et al. (1998) Mol Cell Biol 18, 1946-55. Ribar, T.J. et al. (2000) J Neurosci 20, RC107. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

9. Tan, Y. et al. (1996) EMBO J 15, 4629-42.

1/1/24, 7:32 AM Phospho-CREB (Ser133) (87G3) Rabbit mAb (Alexa Fluor® 647 Conjugate) (#14001) Datasheet Without Im...

Applications Key

 $\textbf{IF-F:} \ Immunofluorescence \ (Frozen) \ \textbf{IF-IC:} \ Immunofluorescence \ (Immunocytochemistry)$

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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