#4095

## Phospho-CREB (Ser133) (87G3) Rabbit mAb (Biotinylated)



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

Applications: W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 43	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P16220	Entrez-Gene Id: 1385
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000	
Storage				nM sodium phosphate (  d 50% glycerol. Store at -		
Specificity/Sen	sitivity	Phospho-CREB (Ser133) (87G3) Rabbit mAb (Biotinylated) 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 predict based on 100% homology	ed to react sequence	Zebrafish				
Source / Purific	ation			nunizing animals with a s er133 of human CREB.	synthetic phosphop	eptide
Description		This Cell Signaling Technology (CST) antibody is conjugated to biotin under optimal conditions. The unconjugated Phospho-CREB (Ser133) (87G3) Rabbit mAb #9198 reacts with human, mouse and rat phospho-CREB (Ser133) protein. CST expects that Phospho-CREB (Ser133) (87G3) Rabbit mAb (Biotinylated) #4095 will also recognize phospho-CREB (Ser133) in these species.				
Background		is able to mediate sigr of cellular responses. the nervous system. C proliferation, neurite o Additionally, CREB sign to selectively activate partners. CREB is activ	als from numerou While CREB is expro REB is believed to p outgrowth, and neu naling is involved ir numerous downstr vated by phosphory ling. Some of the ki	ctivates target genes thr s physiological stimuli, re essed in numerous tissu- olay a key role in promot ironal differentiation in o learning and memory i eam genes through inte lation at Ser133 by vario nases involved in phosp	esulting in regulatio es, it plays a large re ing neuronal surviv certain neuronal pop n several organisms ractions with differe ous signaling pathwa	n of a broad array egulatory role in al, precursor oulations (1-3). 5 (4-6). CREB is able ent dimerization ays, including Erk,
Background Re	eferences	1. Lonze, B.E. et al. (20 2. Lee, M.M. et al. (199 3. Redmond, L. et al. ( 4. Dash, P.K. et al. (199 5. Yin, J.C. et al. (1994) 6. Guzowski, J.F. and M 7. Xing, J. et al. (1998) 8. Ribar, T.J. et al. (2000 9. Tan, Y. et al. (1996)	99) <i>J Neurosci Res</i> 5 2002) <i>Neuron</i> 34, 9 00) <i>Nature</i> 345, 718 <i>Cell</i> 79, 49-58. McGaugh, J.L. (1997) <i>Mol Cell Biol</i> 18, 19 0) <i>J Neurosci</i> 20, RC	5, 702-12. 99-1010. -21. <i>Proc Natl Acad Sci USA</i> 46-55. 107.	94, 2693-8.	
Species Reactiv	/ity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody ir	1 5% w/v BSA, 1X
Applications Ke	ey	W: Western Blotting				
Cross-Reactivit	у Кеу	H: Human M: Mouse F	<b>R:</b> Rat			

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