**Limited Uses** 

## Phospho-CREB (Ser133) Antibody



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<b>Applications:</b> W, IP	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 43	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P16220	Entrez-Gene Id: 1385
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-CREB (Ser133) Antibody detects endogenous levels of CREB only when phosphorylated at serine 133. This antibody also detects the phosphorylated form of the CREB-related protein ATF-1, and has been shown to react weakly with overexpressed levels of pyruvate dehydrogenase.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser133 of human CREB. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		is able to mediate sign of cellular responses. the nervous system. O proliferation, neurite of Additionally, CREB sign to selectively activate partners. CREB is activ	nals 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 thread the sphysiological stimuli, ressed in numerous tissue olay a key role in promoteronal differentiation in a learning and memory it eam genes through integration at Ser133 by varionases involved in phospers	esulting in regulations, it plays a large reting neuronal survive certain neuronal poin several organisme ractions with differous signaling pathwous signaling s	on of a broad array egulatory role in val, precursor pulations (1-3). s (4-6). CREB is able ent dimerization vays, including Erk,
Background References		1. Lonze, B.E. et al. (20 2. Lee, M.M. et al. (199 3. Redmond, L. et al. (199 5. Yin, J.C. et al. (1994) 6. Guzowski, J.F. and N 7. Xing, J. et al. (1998) 8. Ribar, T.J. et al. (200 9. Tan, Y. et al. (1996)	99) <i>J Neurosci Res</i> 5 2002) <i>Neuron</i> 34, 9 90) <i>Nature</i> 345, 718 <i>Cell</i> 79, 49-58. McGaugh, J.L. (1997) <i>Mol Cell Biol</i> 18, 19 9) <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 Reactivity		Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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