Revision 1					
Phospho-CREB (Ser133) Matched Antibody Pair			Cell Signaling TECHNOLOGY®		
20				Orders:	877-616-CELL (2355) orders@cellsignal.com
Species Cross Reactivity: H M R Mk	UniProt ID: #P16220	Entrez-Gene Id: #1385		Support: Web:	877-678-TECH (8324) info@cellsignal.com cellsignal.com
9#			3 Trask Lane	Danvers   Mass	sachusetts   01923   USA

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Product Includes	Product #	Quantity	Isotype/Source				
Phospho-CREB (Ser133) (1B6) Mouse	80864	100 µg	Mouse IgG1				
CREB (48H2) Rabbit mAb (BSA and Azide Free)		56820	100 µg	Rabbit IgG			
Description	The Phospho-CREB (Ser133) Matched Antibody Pair is ideal for use with immunoassay technologies a high-throughput ELISA platforms requiring antibody pairs with specialized or custom antibody labeling. Labels include fluorophores, lanthanides, biotin, and beads. Platforms requiring conjugated Matched Antibody Pairs include MSD, Quanterix Simoa, Alpha Technology (AlphaScreen, AlphaLISA, LANCE, HTRF), and Luminex. Learn how Matched Antibody Pairs move your projects forward, faster at cst-science.com/matched-						
	antibody-pairs.		a, laster at est s				
Specificity/Sensitivity	This kit detects proteins from the indicated species, as determined through in-house testing, but may also detect homologous proteins from other species.						
Storage	Store at -20°C. <i>This product will freeze at -20°C so it is recommended to aliquot into single-use vials to avoid multiple freeze/thaw cycles.</i> A slight precipitate may be present and can be dissolved by gently vortexing. This will not interfere with antibody performance.						
Directions for Use	Matched Antibody Pairs include capture and detection antibodies to non-overlapping epitopes. Optimal dilutions/concentrations should be determined by the end user.						
Formulation	Supplied in 1X PBS (10 mM Na <sub>2</sub> HPO <sub>4</sub> , 3 mM KCl, 2 mM KH <sub>2</sub> PO <sub>4</sub> , and 140 mM NaCl (pH 7.8)). BSA and Azide Free.						
Background	CREB is a bZIP transcription factor that active is able to mediate signals from numerous ph of cellular responses. While CREB is expresse the nervous system. CREB is believed to play proliferation, neurite outgrowth, and neuror Additionally, CREB signaling is involved in lea to selectively activate numerous downstrean partners. CREB is activated by phosphorylati Ca <sup>2+</sup> , and stress signaling. Some of the kinas MSK, CaMKIV, and MAPKAPK-2 (7-9).	nysiological stimuli ed in numerous tis a key role in prom hal differentiation i arning and memor n genes through ir on at Ser133 by va	i, resulting in re- sues, it plays a l noting neuronal in certain neuro ry in several org- nteractions with irious signaling	gulation of a broad array arge regulatory role in survival, precursor nal populations (1-3). anisms (4-6). CREB is able different dimerization pathways, including Erk,			
Background References	<ol> <li>Lonze, B.E. et al. (2002) Neuron 34, 371-85.</li> <li>Lee, M.M. et al. (1999) / Neurosci Res 55, 702-12.</li> <li>Redmond, L. et al. (2002) Neuron 34, 999-1010.</li> <li>Dash, P.K. et al. (1990) Nature 345, 718-21.</li> <li>Yin, J.C. et al. (1994) Cell 79, 49-58.</li> <li>Guzowski, J.F. and McGaugh, J.L. (1997) Proc Natl Acad Sci USA 94, 2693-8.</li> <li>Xing, J. et al. (1998) Mol Cell Biol 18, 1946-55.</li> <li>Ribar, T.J. et al. (2000) J Neurosci 20, RC107.</li> <li>Tan, Y. et al. (1996) EMBO J 15, 4629-42.</li> </ol>						
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