3/15/24, 10:36 AM Revision 6

#4820 Store at -20C Store at -20C	bbit mAb	2 Treak	Orders: Support: Web:	BISignaling CHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com			
	or Lleo in	Diagnostic Brog	oduroc	3 Trask L	ane Danvers Ma.	ssachusetts 01923 USA	
WB, IP, IF-F, IF-IC, FC- H M F	ctivity: Hm Mk	Sensitivity: Endogenous	MW (kDa) : 43	Source/Isotype: Rabbit IgG	UniProt ID: #P16220	Entrez-Gene Id: 1385	
Product Usage Information	For This	For optimal ChIP results, use 5 μ l of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
	Ар	plication			Dil	ution	
	-	stern Blotting			1:1	000	
	Imr	nunoprecipitation			1:5	0	
	Imr	nunofluorescence ((Frozen)		1:4	.00 - 1:1600	
	Imr	nunofluorescence ((Immunocytochen	nistry)	1:4	00 - 1:1600	
	Flo	w Cytometry (Fixed	d/Permeabilized)		1:2	00 - 1:800	
	Ch	romatin IP			1:1	00	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		CREB (D76D11) Rabbit mAb detects endogenous levels of total CREB-1 protein. The antibody does not cross-react with other ATF/CREB family members.					
Source / Purification	Mon	Monoclonal antibody is produced by immunizing animals with a full length GST-CREB fusion protein.					
Background	able cellu nerv proli Add to se part Ca ²	to mediate signals ular responses. Wh rous system. CREB iferation, neurite ou itionally, CREB sigr electively activate n ners. CREB is activ	from numerous p ile CREB is expre- tile creation is believed to plat tgrowth, and neu- naling is involved numerous downstrivated by phospho ing. Some of the	activates target genes the ohysiological stimuli, resubsed in numerous tissu- ay a key role in promotin ronal differentiation in ce in learning and memory ream genes through inter rylation at Ser133 by va kinases involved in phos	ulting in regulation of es, it plays a large re ig neuronal survival, ertain neuronal popu in several organism eractions with differe rious signaling path	of a broad array of egulatory role in the precursor llations (1-3). ns (4-6). CREB is able ent dimerization ways, including Erk,	
Background Reference	2. Le 3. R 4. D 5. Yi 6. G 7. Xi 8. R	onze, B.E. et al. (20 ee, M.M. et al. (199 edmond, L. et al. (2 ash, P.K. et al. (199 in, J.C. et al. (1994) uzowski, J.F. and N ing, J. et al. (1998) ibar, T.J. et al. (200 an, Y. et al. (1996) <i>B</i>	9) J Neurosci Re. 2002) Neuron 34, 30) Nature 345, 72) Cell 79, 49-58. McGaugh, J.L. (19 Mol Cell Biol 18, 0) J Neurosci 20,	s 55, 702-12. 999-1010. 18-21. 997) <i>Proc Natl Acad Sci</i> 1946-55. RC107.	USA 94, 2693-8.		
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved 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	IF-IC	WB: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP				Permeabilized)	

3/15/24, 10:36 AM Cross-Reactivity Key	CREB (D76D11) Rabbit mAb (#4820) Datasheet Without Images Cell Signaling Technology 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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