	Phospho-C/EBPα (Thr222/226) Antibody				ell Signaling сниогоду®	
	Stor				Orders:	877-616-CELL (2355) orders@cellsignal.com
	4				Support:	877-678-TECH (8324)
	#2844				Web:	info@cellsignal.com cellsignal.com
		loo in Diagnostia Broos	dunaa	3 Trask	Lane Danvers Ma	ssachusetts   01923   USA
-	or Research Use Only. Not for	ity: Sensitivity:	MW (kDa): 30, 42, 45	Source: Rabbit	<b>UniProt ID:</b> #P49715	Entrez-Gene Id: 1050
_		Lindogenous	50, 42, 45		#F49713	1050
	Product Usage Information	Application			Dilution	
		Western Blotting			1:1000	
	Storage	Supplied in 10 mM sodiu 20°C. Do not aliquot the		5), 150 mm NaCl, 100	μg/mi BSA and 50%	6 glycerol. Store at –
	Specificity / Sensitivity	Phospho-C/EBPα (Thr2 at threonine 222 and 22				
	Species predicted to react based on 100% sequence homology:	Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr222/226 of mouse C/EBP $\alpha$ . Antibodies are purified by protein A and peptide affinity chromatography.				
	Background	CCAAT/enhancer-binding proteins (C/EBPs) are a family of transcription factors that are critical for cellular differentiation, terminal function, and inflammatory response (1). Six members of the family have been characterized (C/EBP $\alpha$ , $\beta$ , $\delta$ , $\gamma$ , $\varepsilon$ , and $\zeta$ ) and are distributed in a variety of tissues (1). Translation from alternative start codons results in two isoforms of C/EBP $\alpha$ (p42 and p30), which are both strong transcriptional activators (2). It has been reported that insulin and insulin-like growth factor-I stimulate the dephosphorylation of C/EBP $\alpha$ , which may play a key role in insulin-induced repression of GLUT4 transcription (3). Phosphorylation of C/EBP $\alpha$ at Thr222, Thr226, and Ser230 by GSK-3 seems to be required for adipogenesis (4).				
	Background References	<ol> <li>Lekstrom-Hims, J. and Xanthopoulos, K.G. (1998) <i>J. Biol. Chem.</i> 273, 28545-28548.</li> <li>Lin, F. et al. (1993) <i>Proc. Natl. Acad. Sci. USA</i> 90, 9606-9610.</li> <li>Hemati, N. et al. (1997) <i>J. Biol. Chem.</i> 272, 25913-25919.</li> <li>Ross, S.E. et al. (1999) <i>Mol. Cell. Biol.</i> 19, 8433-8441.</li> </ol>				
	Species Reactivity	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	WB: Western Blotting				
	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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