Revision 1						
Phospho-C/EBPbeta (Ser105) Antibody (Rat Specific)				Cell Signaling TECHNOLOGY® Orders: 877-616-CELL (2355)		
ζί Α					orders@cellsignal.com	
7				Support:	877-678-TECH (8324)	
#3081				Web:	info@cellsignal.com cellsignal.com	
	t fau llas in Discussetis Dussed		3 Trask	Lane Danvers Mas	sachusetts 01923 USA	
	t for Use in Diagnostic Proced eactivity: Sensitivity: R Endogenous	MW (kDa): 41	Source: Rabbit	UniProt ID: #P21272	Entrez-Gene Id: 24253	
Product Usage	Application			Dilution		
Information	Western Blotting			1:1000		
Storage	Supplied in 10 mM sodiun 20°C. Do not aliquot the a		5), 150 mM NaCl, 100) μg/ml BSA and 50%	glycerol. Store at –	
Specificity / Sensitivit	Y Phospho-C/EBPbeta (Ser when phosphorylated at s alpha, delta, gamma, epsi	erine 105. It does	s not cross-react with	phosphorylated rat C	/EBP family members	
Source / Purification	Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide correspond to residues surrounding Ser105 of rat C/EBPbeta. Antibodies are purified by protein A and peptide affinit chromatography.					
Background	differentiation, terminal fur characterized (C/EBPα, -f forms of C/EBPβ, the 38 k which may be products of LIP may act as an inhibito sites stimulates its transcr	CCAAT/enhancer-binding proteins (C/EBPs) are a family of transcription factors critical for cellular differentiation, terminal functions, and inflammatory response (1). Six members of the family have been characterized (C/EBP α , - β , - γ , - δ , - ϵ , and - ζ) and are distributed in a variety of tissues (1). There are two forms of C/EBP β , the 38 kDa liver activating protein (LAP) and the 20 kDa liver inhibitory protein (LIP) which may be products of alternative translation. The 38 kDa LAP protein is a transcriptional activator while LIP may act as an inhibitor of C/EBP β transcriptional activity (2). Phosphorylation of C/EBP β at distinct sites stimulates its transcriptional activity (3-5). Phosphorylation at serine 105 of rat C/EBP β , a unique site only present in the rat sequence, seems essential for rat C/EBP β activation (6).				
Background Reference	2. Calkhoven, C.F. et al. (2	1. Lekstrom-Himes, J. and Xanthopoulos, K.G. (1998) <i>J. Biol. Chem.</i> 273, 28545-28548. 2. Calkhoven, C.F. et al. (2000) <i>Genes Dev.</i> 14, 1920-1932. 3. Wegner, M. et al. (1992) <i>Science</i> 256, 370-373.				
	4. Trautwein, C. et al. (199	93) Nature 364, 5	644-547.			
	5. Nakajima, T. et al. (1993) 6. Buck, M. et al. (1999) <i>N</i>			7-2211.		
Species Reactivity	Species reactivity is detern	nined by testing i	n at least one approv	ved application (e.g., v	vestern 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	X: Xenopus Z: zebrafish B	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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