Phospho-C/EBPα (Thr222/226) Antibody 707 708 709 709 700 700 701 702 703 704 705 705 705 706 707 708 709 700</



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Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 30, 42, 45	Source/Isotype: Rabbit	UniProt ID: #P49715	Entrez-Gene Id: 1050	
Product Usage Information		Application Western Blotting	Dilution 1:1000				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				ycerol. Store at –	
Specificity/Sen	ecificity/Sensitivity Phospho-C/EBPα (Thr222/226) Antibody detects endogenous levels of C/EBPα only when phosphorylated at threonine 222 and 226. This antibody does not cross-react with other phosphorylated C/EBP isoforms.						
Species predict based on 100% homology		Rat					
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr222/226 of mouse C/EBPɑ. 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 α , β , δ , γ , ϵ , and ζ) and are distributed in a variety of tissues (1). Translation from alternative start codons results in two isoforms of C/EBP α (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 α , which may play a key role in insulin-induced repression of GLUT4 transcription (3). Phosphorylation of C/EBP α at Thr222, Thr226, and Ser230 by GSK-3 seems to be required for adipogenesis (4).					
Background Re	eferences	1. Lekstrom-Hims, J. and Xanthopoulos, K.G. (1998) <i>J. Biol. Chem.</i> 273, 28545-28548. 2. Lin, F. et al. (1993) <i>Proc. Natl. Acad. Sci. USA</i> 90, 9606-9610. 3. Hemati, N. et al. (1997) <i>J. Biol. Chem.</i> 272, 25913-25919. 4. Ross, S.E. et al. (1999) <i>Mol. Cell. Biol.</i> 19, 8433-8441.					
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ey	W: Western Blotting					
Cross-Reactivit	ty Key	H: Human M: Mouse					
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