C/EBPalpha (p42) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 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 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		C/EBPalpha (p42) Antibody detects endogenous levels of total p42 C/EBPalpha protein but not p30 C/EBPalpha.				
Species predicted to react based on 100% sequence homology		Mouse, Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal sequence of human C/EBPalpha. 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 References		 Lekstrom-Hims, J. and Xanthopoulos, K.G. (1998) J. Biol. Chem. 273, 28545-28548. Lin, F. et al. (1993) Proc. Natl. Acad. Sci. USA 90, 9606-9610. Hemati, N. et al. (1997) J. Biol. Chem. 272, 25913-25919. Ross, S.E. et al. (1999) Mol. Cell. Biol. 19, 8433-8441. 				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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		W: Western Blotting				
Cross-Reactivity Key		H: Human				
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