C/EBPβ Antibody



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Applications:	Reactivity: R	Sensitivity: Endogenous	MW (kDa): 38, 41	Source/Isotype: Rabbit	UniProt ID: #P21272	Entrez-Gene Id: 24253
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/EBPbeta Antibody detects endogenous levels of rat C/EBPbeta protein. It does not cross-react with other C/EBP family members such as C/EBPalpha, -delta, -gamma, -epsilon or -zeta. It also does not recognize the p20 LIP rat C/EBPbeta isoform.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser105 of rat C/EBPbeta. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		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 References		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. (1993) <i>Nature</i> 364, 544-547. 5. Nakajima, T. et al. (1993) <i>Proc. Natl. Acad. Sci. USA</i> 90, 2207-2211. 6. Buck, M. et al. (1999) <i>Mol. Cell</i> 4, 1087-1092.				

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 W: Western Blotting

Cross-Reactivity Key R: Rat

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