Store at -20C

Phospho-C/EBPα (Ser21) Antibody



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Applications: WB	Reactivity:	Sensitivity: Endogenous	MW (kDa): 45	Source: Rabbit	UniProt ID: #P49715	Entrez-Gene Id 1050
	H M					
Product Usage	Арр	plication			Dilution	
Information	We	stern Blotting			1:1000	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaC 20°C. Do not aliquot the antibody.				00 μg/ml BSA and 50% ç	glycerol. Store at –
Specificity / Sens		Phospho-C/EBP α (Ser21) Antibody detects endogenous levels of C/EBP α only when phosphorylated at serine 21. This antibody does not cross-react with other phosphorylated C/EBP isoforms.				
Species predicte react based on 1 sequence homol	00%	Bovine				
Source / Purifica	to re	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser21 of human C/EBP α . Antibodies are purified by protein A and peptide affinity chromatography.				
Background	diffe	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				

Background References

- 1. Lekstrom-Hims, J. and Xanthopoulos, K.G. (1998) J. Biol. Chem. 273, 28545-28548.
- 2. Lin, F. et al. (1993) Proc. Natl. Acad. Sci. USA 90, 9606-9610.
- 3. Hemati, N. et al. (1997) J. Biol. Chem. 272, 25913-25919.
- 4. Ross, S.E. et al. (1999) Mol. Cell. Biol. 19, 8433-8441.
- 5. Radomska, H.S. et al. (2006) J Exp Med 203, 371-81.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

alternative start codons results in two isoforms of C/EBPa (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/EBPa, which may play a key role in insulin-induced repression of GLUT4 transcription (3). Phosphorylation of C/EBPa at Thr222, Thr226, and Ser230 by GSK-3 seems to be

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

required for adipogenesis (4).

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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