

90081

C/EBP Antibody



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 20 KD (LIP), 46 KD (LAP), 48 KD (Full Length)	Source/Isotype: Rabbit	UniProt ID: #P17676	Entrez-Gene Id: 1051
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. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		C/EBP β Antibody recognizes endogenous levels of total C/EBP β protein. This antibody does not cross-react with C/EBP α protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human C/EBP β protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		C/EBPβ is a member of the transcription factor family of CCAAT/enhancer-binding proteins (C/EBPs) that are critical for cellular differentiation and function (1). There are various N-terminally truncated C/EBPβ isoforms: full-length C/EBPβ, C/EBPβ-LAP (liver-enriched activator protein), and C/EBPβ-LIP (liver-enriched inhibitory protein). In triple-negative breast cancer cells, aerobic glycolysis was shown to control the expression of C/EBPβ-LAP, which in turn stimulates the expression of granulocyte colony-stimulating factor (G-CSF) and granulocyte macrophage colony-stimulating factor (GM-CSF). These factors are secreted from the cancer cells to promote myeloid-derived suppressor cell (MDSC) development in the tumor microenvironment, thereby suppressing anti-tumor immunity (2). In addition, research studies showed that decreased C/EBPβ-LIP expression delays age-related phenotypes in mice, suggesting a potential role for C/EBPβ-LIP in aging (3).				
Background References		 Lekstrom-Himes, J. and Xanthopoulos, K.G. (1998) J Biol Chem 273, 28545-8. Li, W. et al. (2018) Cell Metab 28, 87-103.e6. Müller, C. et al. (2018) Elife 7, pii: e34985. doi: 10.7554/eLife.34985. 				

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 H: Human

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