

## Biotin anti-C/EBP $\beta$ (3 isoforms C/EBP $\beta$ , LAP, LIP) Antibody

<b>Catalog# / Size</b>	606203 / 25 $\mu$ g 606204 / 100 $\mu$ g
<b>Clone</b>	1H7
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	CCAAT/enhancer-binding protein beta, Alpha-1-acid glycoprotein/enhancer binding protein, Interleukin 6-dependent DNA-binding protein (IL-6DBP), Nuclear factor of interleukin 6 (NF-IL6), Liver-enriched transcriptional activator protein (LAP)
<b>Isotype</b>	Mouse IgG2a, $\kappa$
<b>Description</b>	C/EBP $\beta$ (also known as CCAAT/enhancer-binding protein beta, interleukin 6-dependent DNA-binding protein, and nuclear factor of interleukin 6 [NF-IL6]) is a member of the basic leucine zipper C/EBP transcription factor family. C/EBP has three isoforms that include C/EBP $\beta$ , LAP, and LIP (35 kD, 32 kD, and 20 kD, respectively). This protein is localized in the nucleus and functions as a transcription factor in immune, inflammatory, acute-phase, cytokine, collagen type I gene expression. It is upregulated by growth hormones and has been shown to interact with CEBP- $\alpha$ , CEBP- $\delta$ , CEBP- $\gamma$ , CEBP- $\epsilon$ , and CEBP- $\zeta$ . The C/EBP $\beta$ protein can be modified by phosphorylation and ubiquitination. The 1H7 monoclonal antibody has been reported to be useful for Western blotting, immunoprecipitation, and immunofluorescence of mouse and rat C/EBP $\beta$ , LIP, and LAP isoforms. The 1H7 antibody does not recognize human C/EBP $\beta$ , LIP or LAP.

### Product Details

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<b>Verified Reactivity</b>	Mouse, Rat
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Recombinant LIP
<b>Formulation</b>	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. Final antibody concentration is 0.5 mg/ml.
<b>Preparation</b>	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">WB - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">Western blotting</a> . Western blotting, suggested working dilution(s): Use 5 $\mu$ g antibody per 5 mL antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	Recognizes three mouse isoforms: C/EBP $\beta$ , LAP, LIP. Does not cross-react with human.
<b>Application References</b>	1. Su, <i>et al.</i> 2003. <i>J. Biol. Chem.</i> 278:51150. (ChIP) 2. Blidner AG, <i>et al.</i> 2015. <i>J Immunol.</i> 194:3452. <a href="#">PubMed</a>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_572024 (BioLegend Cat. No. 606203) AB_572025 (BioLegend Cat. No. 606204)

### Antigen Details

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<b>Structure</b>	C/EBP transcription factor family, basic leucine zipper, dimer. Isoforms C/EBP $\beta$ , LAP, LIP, approximately 35 kD, 32 kD, 20 kD, respectively
<b>Distribution</b>	Nuclear
<b>Function</b>	Transcription factor in immune, inflammatory, acute-phase, cytokine, collagen type I genes
<b>Interaction</b>	CEBP- $\alpha$ , CEBP- $\beta$ , CEBP- $\delta$ , CEBP- $\gamma$ , CEBP- $\epsilon$ , CEBP- $\zeta$
<b>Modification</b>	Phosphorylation, Ubiquitination
<b>Biology Area</b>	Cell Biology, Transcription Factors
<b>Molecular Family</b>	Nuclear Markers
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Chang C, <i>et al.</i> 1990. <i>Mol. Cell Biol.</i> 10:6642.</li> <li>2. Eaton E, <i>et al.</i> 2001. <i>J. Cell Physiol.</i> 189:91.</li> <li>3. Piwien-Pilipuk G, <i>et al.</i> 2002. <i>J. Biol. Chem.</i> 277:44557.</li> <li>4. Hattori T, <i>et al.</i> 2003. <i>Oncogene.</i> 22:1273.</li> </ol>
<b>Regulation</b>	Growth hormone
<b>Gene ID</b>	<a href="#">12608</a> <a href="#">25301</a>

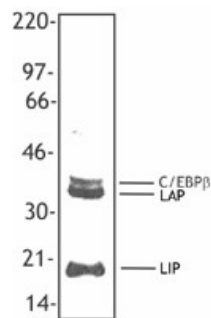
## Related Protocols

[Western Blotting Protocol](#)

## Other Formats

Purified anti-C/EBP  $\beta$  (3 isoforms C/EBP  $\beta$ , LAP, LIP), Biotin anti-C/EBP  $\beta$  (3 isoforms C/EBP  $\beta$ , LAP, LIP)

## Product Data



P388D1 (IL-1) cell nuclear extract was resolved by electrophoresis, transferred to nitrocellulose and probed with anti-C/EBP  $\beta$  antibody (Clone 1H7). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a chemiluminescence system.

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