

CEBPB Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6815a**Specification****CEBPB Antibody (N-term) Blocking Peptide -
Product Information**Primary Accession [P17676](#)**CEBPB Antibody (N-term) Blocking Peptide -
Additional Information****Gene ID** 1051**Other Names**CCAAT/enhancer-binding protein beta,
C/EBP beta, Liver activator protein, LAP,
Liver-enriched inhibitory protein, LIP,
Nuclear factor NF-IL6, Transcription factor
5, TCF-5, CEBPB, TCF5**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6815a](/products/AP6815a) was selected from the N-term region of human CEBPB. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CEBPB Antibody (N-term) Blocking Peptide -
Protein Information****CEBPB Antibody (N-term) Blocking Peptide
- Background**

CEBPB is a bZIP transcription factor which can bind as a homodimer to certain DNA regulatory regions. It can also form heterodimers with the related proteins CEBP-alpha, CEBP-delta, and CEBP-gamma. This protein is important in the regulation of genes involved in immune and inflammatory responses and has been shown to bind to the IL-1 response element in the IL-6 gene, as well as to regulatory regions of several acute-phase and cytokine genes. In addition, It can bind the promoter and upstream element and stimulate the expression of the collagen type I gene.

**CEBPB Antibody (N-term) Blocking Peptide
- References**

Buck,M., et.al., Mol. Cell 4 (6), 1087-1092 (1999)

Name CEBPB ([HGNC:1834](#))

Synonyms TCF5

Function

Important transcription factor regulating the expression of genes involved in immune and inflammatory responses (PubMed: [1741402](http://www.uniprot.org/citations/1741402)), PubMed: [9374525](http://www.uniprot.org/citations/9374525), PubMed: [12048245](http://www.uniprot.org/citations/12048245), PubMed: [18647749](http://www.uniprot.org/citations/18647749)). Plays also a significant role in adipogenesis, as well as in the gluconeogenic pathway, liver regeneration, and hematopoiesis. The consensus recognition site is 5'-T[**TG**]NNGNAA[**TG**]-3'. Its functional capacity is governed by protein interactions and post-translational protein modifications. During early embryogenesis, plays essential and redundant functions with CEBPA. Has a promototic effect on many cell types such as hepatocytes and adipocytes but has an antiproliferative effect on T-cells by repressing MYC expression, facilitating differentiation along the T-helper 2 lineage. Binds to regulatory regions of several acute-phase and cytokines genes and plays a role in the regulation of acute-phase reaction and inflammation. Plays also a role in intracellular bacteria killing (By similarity). During adipogenesis, is rapidly expressed and, after activation by phosphorylation, induces CEBPA and PPARG, which turn on the series of adipocyte genes that give rise to the adipocyte phenotype. The delayed transactivation of the CEBPA and PPARG genes by CEBPB appears necessary to allow mitotic clonal expansion and thereby progression of terminal differentiation (PubMed: [20829347](http://www.uniprot.org/citations/20829347)). Essential for female reproduction because of a critical role in ovarian follicle development (By similarity). Restricts osteoclastogenesis: together with NFE2L1; represses expression of DSPP during odontoblast differentiation (By similarity).

Cellular Location

Nucleus. Cytoplasm. Note=Translocates to the nucleus when phosphorylated at Ser-288. In T-cells when sumoylated drawn to pericentric heterochromatin thereby allowing proliferation (By similarity).
{ECO:0000250|UniProtKB:P28033,
ECO:0000269|PubMed:9374525}

Tissue Location

Expressed at low levels in the lung, kidney and spleen

**CEBPB Antibody (N-term) Blocking Peptide
- Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)