

**C/EBP  $\beta$  (phospho Thr235) Polyclonal Antibody**  
**Catalog # AP66972****Specification****C/EBP  $\beta$  (phospho Thr235) Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IF
Primary Accession	<a href="#">P17676</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**C/EBP  $\beta$  (phospho Thr235) Polyclonal Antibody - Additional Information****Gene ID** 1051**Other Names**

CEBPB; LAP; TCF5; PP9092; CCAAT/enhancer-binding protein beta; C/EBP beta; Liver activator protein; Nuclear factor NF-IL6; Transcription factor 5; TCF-5

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.

IHC-P~~N/A

IF~~1:50~200

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**C/EBP  $\beta$  (phospho Thr235) Polyclonal Antibody - Protein Information****Name** CEBPB ([HGNC:1834](#))**Synonyms** TCF5**Function**

Important transcription factor regulating the expression of genes involved in immune and inflammatory responses (PubMed:<a href="http://www.uniprot.org/citations/12048245" target="\_blank">12048245</a>, PubMed:<a href="http://www.uniprot.org/citations/1741402" target="\_blank">1741402</a>, PubMed:<a href="http://www.uniprot.org/citations/18647749" target="\_blank">18647749</a>, PubMed:<a href="http://www.uniprot.org/citations/9374525" target="\_blank">9374525</a>). Also plays 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 roles with CEBPA. Has a promitotic 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. Also plays 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:<a href="http://www.uniprot.org/citations/20829347" target="\_blank">20829347</a>). 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

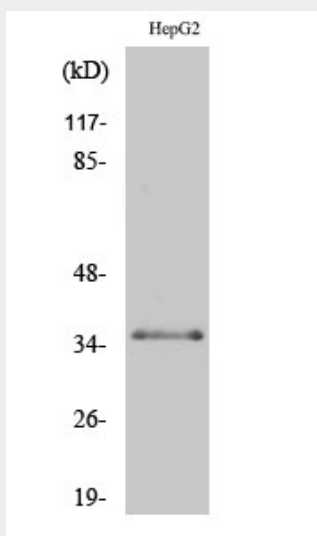
Expressed at low levels in the lung, kidney and spleen

### C/EBP $\beta$ (phospho Thr235) Polyclonal Antibody - Protocols

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

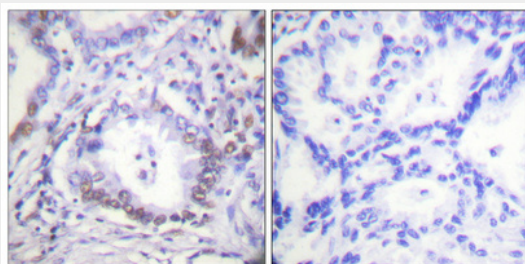
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### C/EBP $\beta$ (phospho Thr235) Polyclonal Antibody - Images

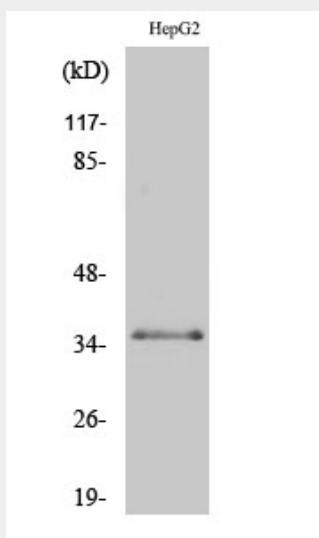


Western Blot analysis of various cells using Phospho-C/EBP  $\beta$  (T235) Polyclonal Antibody diluted

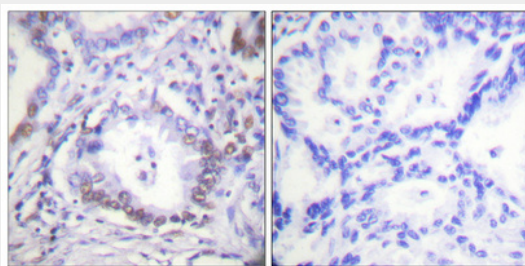
at 1:500



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



Western Blot analysis of various cells using Phospho-C/EBP  $\beta$  (T235) Polyclonal Antibody diluted at 1:500



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.

#### **C/EBP $\beta$ (phospho Thr235) Polyclonal Antibody - Background**

Important transcription factor regulating the expression of genes involved in immune and inflammatory responses (PubMed:1741402, PubMed:9374525, PubMed:12048245, PubMed: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 promitotic 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). 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).