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# Anti-CEBP beta Rabbit Monoclonal Antibody

Catalog # ABO13961

## Product Information

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|---|---|
| **Application** | WB, IF, ICC, IP, FC |
| **Primary Accession** | P17676 |
| **Host** | Rabbit |
| **Isotype** | Rabbit IgG |
| **Reactivity** | Rat, Human, Mouse |
| **Clonality** | Monoclonal |
| **Format** | Liquid |
| **Description** | Anti-CEBP beta Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. |

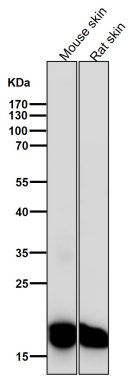
## Additional Information

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| **Gene ID** | 1051 |
| **Other Names** | CCAAT/enhancer-binding protein beta {ECO:0000312\|HGNC:HGNC:1834}, C/EBP beta {ECO:0000312\|HGNC:HGNC:1834}, Liver activator protein, LAP, Liver-enriched inhibitory protein, LIP, Nuclear factor NF-IL6, Transcription factor 5, TCF-5, CEBPB (HGNC:1834), TCF5 |
| **Calculated MW** | 36106 |
| **Application Details** | WB 1:500-1:2000<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:50 |
| **Subcellular Localization** | Nucleus. Cytoplasm. Translocates to the nucleus when phosphorylated at Ser-288. In T-cells when sumoylated drawn to pericentric heterochromatin thereby allowing proliferation (By similarity).. |
| **Tissue Specificity** | Expressed at low levels in the lung, kidney and spleen. |
| **Source** | Eukaryota |
| **Contents** | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA. |
| **Clone Names** | Clone: F-3 |
| **Immunogen** | A synthesized peptide derived from rat CEBP Beta |
| **Purification** | Affinity-chromatography |
| **Storage** | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |

## Protein Information

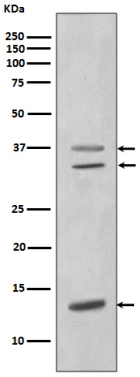
| | |
|---|---|
| **Name** | CEBPB ( HGNC:1834) |
| **Synonyms** | TCF5 |
| **Function** | Important transcription factor regulating the expression of genes involved in immune and inflammatory responses (PubMed:12048245, PubMed:1741402, PubMed:18647749, PubMed:9374525). Also plays a significant role 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: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 |

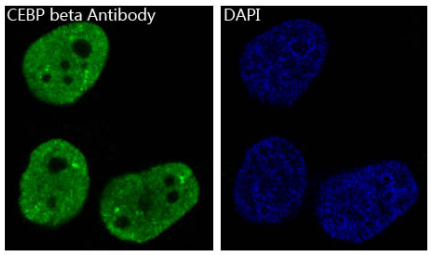
## Images




All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.

Western blot analysis of CEBP beta expression in MCF-7 cell lysate.




Immunofluorescent analysis of Hela cells, using CEBP beta Antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.