

Rabbit C/EBP beta Polyclonal Antibody | anti-C/EBPbeta antibody

Anti-C/EBP beta Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA292258	Rabbit	Human, Bovine, Dog	Immunohistochemistry, Western Blot

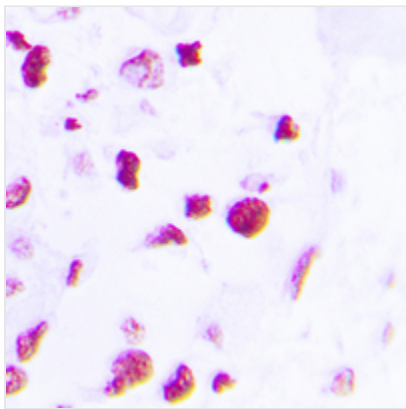
PRODUCT SYNONYMS

C/EBP beta; Polyclonal Antibody; Anti-C/EBP beta Antibody; TCF5; CCAAT/enhancer-binding protein beta; Liver activator protein; LAP; Liver-enriched inhibitory protein; LIP; Nuclear factor NF-IL6; Transcription factor 5; TCF-5; anti-C/EBPbeta antibody

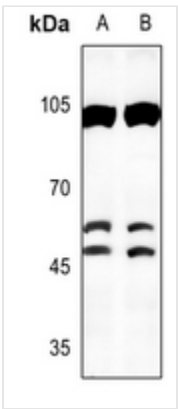
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Bovine, Dog
Clonality	Polyclonal
Specificity	Recognizes endogenous levels of C/EBP beta protein.
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09 (W/V) sodium azide.
Applicable Applications for anti-C/EBPbeta antibody	IHC (Immunohistochemistry), WB (Western Blot)
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 prometotic 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.
Preparation and Storage	Store at -20 degree. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
Dilution: WB: (1/500 - 1/1000), IH (1/100 - 1/200)Immunohistochemical analysis of C/EBP beta staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



WB (Western Blot)
Dilution: WB (1/500 - 1/1000), IH (1/100 - 1/200)Western blot analysis of C/EBP beta expression in EC9706 (A), A549 (B) whole cell lysates.

ADDITIONAL INFORMATION

Related Product Information for anti-C/EBPbeta antibody	Rabbit polyclonal antibody to C/EBP beta KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human C/EBP beta. The exact sequence is proprietary.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	28872796
NCBI GeneID	1051
NCBI Accession #	NP_005185.2
NCBI GenBank Nucleotide #	NM_005194.3
UniProt Accession #	P17676; Q96IH2; Q9H4Z5; A8K671
Molecular Weight	Calculated MW: 36106
NCBI Official Full Name	CCAAT/enhancer-binding protein beta
NCBI Official Synonym Full Names	CCAAT/enhancer binding protein (C/EBP), beta
NCBI Official Symbol	CEBPB
NCBI Official Synonym Symbols	LAP; CRP2; TCF5; IL6DBP; NF-IL6; C/EBP-beta
NCBI Protein Information	CCAAT/enhancer-binding protein beta; TCF-5; nuclear factor NF-IL6; transcription factor 5; nuclear factor of interleukin 6; interleukin 6-dependent DNA-binding protein; liver-enriched transcriptional activator protein
UniProt Protein Name	CCAAT/enhancer-binding protein beta
UniProt Gene Name	CEBPB
UniProt Synonym Gene Names	LAP; TCF5; C/EBP beta; TCF-5
UniProt Entry Name	CEBPB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

