C/EBP Beta (CEBPB) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	C/EBP beta (CEBPB), Polyclonal Antibody
Full Product Name	C/EBP beta (Phospho-Thr235) Polyclonal Conjugated Antibody
Product Gene Name	anti-CEBPB antibody
Product Synonym 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
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	Phospho-C/EBP-beta (T235) polyclonal antibody detects endogenous levels of C/EBP-beta protein only when phosphorylated at T235.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	36,106 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (48807120..48809227). Location: 20q13.1
OMIM	189965
3D Structure	ModBase 3D Structure for P17676
Immunogen	Synthesized peptide derived from human C/EBP beta- around the phosphorylation site of T235.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-CEBPB antibody	Most Applications
Application Notes for anti-CEBPB antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-CEBPB antibody	MBS9437603 is an antibody targeting CEBPB. Also known as C/EBP beta (Phospho-Thr235) Polyclonal Conjugated Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CEBPB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CEBPB. It may not necessarily be applicable to this product.

NCBI GI #	28872796
NCBI GeneID	1051
NCBI Accession #	NP_005185.2
UniProt Primary Accession #	P17676
UniProt Secondary Accession #	Q96IH2; Q9H4Z5; A8K671
UniProt Related Accession #	P17676
GenBank Nucleotide #	NM_005194.3
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
UniProt Protein Name	CCAAT/enhancer-binding protein beta
UniProt Synonym Protein Names	Liver activator protein; Nuclear factor NF-IL6; Transcription factor 5
Protein Family	CCAAT/enhancer-binding protein
UniProt Gene Name	CEBPB
UniProt Synonym Gene Names	LAP; TCF5; C/EBP beta; TCF-5
UniProt Entry Name	CEBPB_HUMAN
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
NCBI Summary for CEBPB	The protein encoded by this intronless gene 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. The encoded 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, the encoded protein can bind the promoter and upstream element and stimulate the expression of the collagen type I gene. [provided by RefSeq, Jul 2008]
UniProt Comments for CEBPB	C/EBP-beta: a bZIP transcription factor which can form homodimers or heterodimers with the related proteins CEBP-alpha, -delta and -gamma. Involved in immune and inflammatory responses. Specifically binds to regulatory regions of genes encoding IL-6, other cytokines and several acute-phase proteins. There are two forms of C/EBPbeta, the 38kDa liver activating protein (LAP) and the 20kDa liver inhibitory protein (LIP) which may be products of alternative translation. LAP is a transcriptional activator while LIP may inhibit C/EBPbeta transcriptional activity. Phosphorylated and activated by ERK1/2. Protein type: Motility/polarity/chemotaxis; Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 20q13.1 Cellular Component: nucleoplasm; nuclear matrix; nuclear chromatin; cytoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; protein homodimerization activity; DNA binding; protein heterodimerization activity; chromatin binding; transcription factor activity; transcription factor binding; glucocorticoid receptor binding Biological Process: transcription from RNA polymerase II promoter; embryonic placenta development; regulation of interleukin-6 biosynthetic process; mammary gland epithelial cell proliferation; response to lipopolysaccharide; neuron differentiation; positive regulation of osteoblast differentiation; regulation of transcription, DNA-dependent; brown fat cell differentiation; acute-phase response; positive regulation of fat cell differentiation; immune response; positive regulation of transcription from RNA polymerase II promoter; negative regulation of neuron apoptosis; inflammatory response; negative regulation of transcription, DNA-dependent

Research Articles on CEBPB	**1.** C/EBPbeta regulates interleukin (IL)-1beta astrocytic inflammatory genes.
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