

For Research Use Only

# CEBPA Polyclonal antibody

Catalog Number: 18311-1-AP

Featured Product

57 Publications



## Basic Information

**Catalog Number:**

18311-1-AP

**Size:**

750 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

BC160133

**GeneID (NCBI):**

1050

**UNIPROT ID:**

P49715

**Full Name:**

CCAAT/enhancer binding protein (C/EBP), alpha

**Calculated MW:**

38 kDa

**Observed MW:**

40-45 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

IP, WB, ELISA

**Cited Applications:**

WB, IHC, IF, ChIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, goat, rat, sheep, mouse, hamster, pig

**Positive Controls:**

WB: L02 cells, human liver tissue

IP: L02 cells,

## Background Information

CEBPA and its isoforms play important roles in lineage determination and gene activation in a variety of cell types by activating transcription from lineage-specific promoters. CEBPA is a DNA-binding protein that recognizes two different motifs: the CCAAT homology common to many promoters and the enhanced core homology common to many enhancers. In hematopoiesis, C/EBPα is a key factor in driving the development of myeloid cells interacting with a variety of factors, including c-Myc, PU.1, and microRNAs. It can also form heterodimers with the related proteins CEBP-beta and CEBP-gamma. The encoded protein has been shown to bind to the promoter and modulate the expression of the gene encoding leptin which plays an important role in body weight homeostasis. CEBPA can interact with CDK2 and CDK4, thereby inhibiting these kinases and causing growth arrest in cultured cells. Several pathways have been implicated as the means by which CEBPA mediates cell cycle arrest and proliferation, including p21, cyclin-dependent kinases and the E2F complex via c-Myc. The calculated molecular weight of CEBPA is 38 kDa, but modified CEBPA is about 42 kDa (PMID: 19623175).

## Notable Publications

Author	Pubmed ID	Journal	Application
Hai-Shuang Lin	25258381	J Leukoc Biol	WB
Ladan Kobari	34556797	Leukemia	WB
Zhao Yang	36120828	J Biochem Mol Toxicol	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

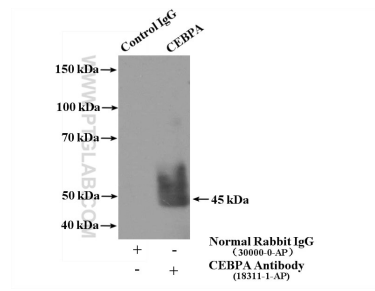
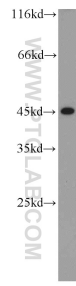
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



L02 cells were subjected to SDS PAGE followed by western blot with 18311-1-AP (CEBPA antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

IP result of anti-CEBPA (IP:18311-1-AP, 4ug; Detection:18311-1-AP 1:500) with L02 cells lysate 1800ug.