For Research Use Only

CEBP Alpha/CEBPA Polyclonal antibody

Catalog Number:18311-1-AP Featured Product 72 Publications

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Basic Information

Catalog Number:
18311-1-AP

Size:
150ul , Concentration: 750 μg/ml by Nanodrop and 347 μg/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:
WB, IP, ELISA

Cited Applications:
WB, IHC, IF, chIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, hamster, sheep, goat

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/EBPa 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 calcualted 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

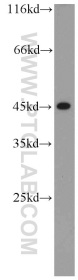
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

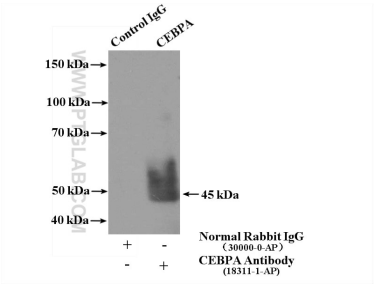
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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.