

For Research Use Only

CEBP Alpha/CEBPA Polyclonal antibody

Catalog Number: 29388-1-AP

14 Publications



Basic Information

Catalog Number:

29388-1-AP

Size:

150ul, Concentration: 1500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG29947

GenBank Accession Number:

NM_004364

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: 1:1000-1:6000

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

Species Specificity:

human

Cited Species:

human, mouse, rat

Positive Controls:

WB: BGC-823 cells, LNCaP cells, THP-1 cells, U-937 cells, K-562 cells, L02 cells, HL-60 cells

IP: THP-1 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-β and CEBP-γ. 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
Liran Xu	40015624	Mol Metab	WB, IF
Deniz Bozdog	39955080	Toxicol Lett	WB
Mingzheng Han	39837449	Int J Biol Macromol	WB, IF

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

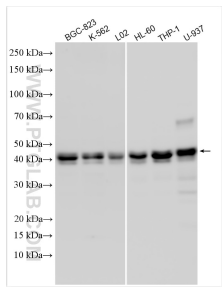
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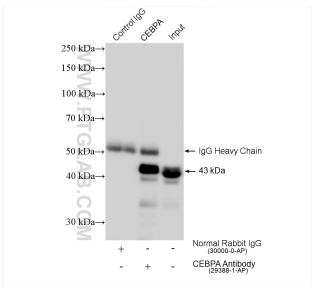
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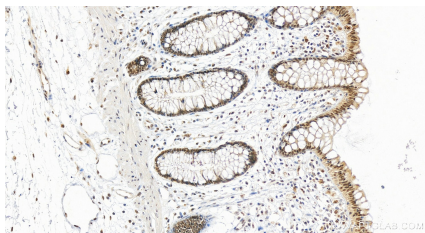
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29388-1-AP (CEBP Alpha/CEBPA antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-CEBP Alpha/CEBPA (IP:29388-1-AP, 4ug; Detection:29388-1-AP 1:4000) with THP-1 cells lysate 1520 ug.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 29388-1-AP (CEBP Alpha/CEBPA antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).