

For Research Use Only

# CEBPA Polyclonal antibody

Catalog Number: 29388-1-AP



## Basic Information

<b>Catalog Number:</b> 29388-1-AP	<b>GenBank Accession Number:</b> NM_004364	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 1500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1050	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IP 0.5-4.0 ug for IP and 1:1000-1:8000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> CCAAT/enhancer binding protein (C/EBP), alpha	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 38 kDa	
<b>Immunogen Catalog Number:</b> AG29947	<b>Observed MW:</b> 40-45 kDa	

## Applications

**Tested Applications:**  
IP, WB, ELISA

**Species Specificity:**  
Human

**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-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).

## 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

\*\*\* 20ul sizes contain 0.1% BSA

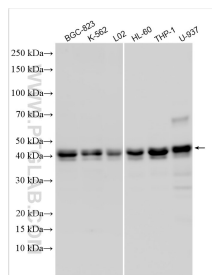
For technical support and original validation data for this product please contact:

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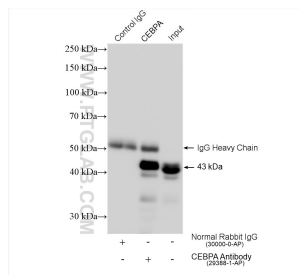
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## Selected Validation Data



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



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