

For Research Use Only

CEBP Alpha/CEBPA Recombinant antibody

Catalog Number: 84668-2-RR



Basic Information

Catalog Number: 84668-2-RR	GenBank Accession Number: NM_004364	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 1050	CloneNo.: 242101C10
Source: Rabbit	UNIPROT ID: P49715	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Full Name: CCAAT/enhancer binding protein (C/EBP), alpha	
Immunogen Catalog Number: AG29947	Calculated MW: 38 kDa	
	Observed MW: 40-45 kDa	

Applications

Tested Applications: WB, FC (Intra), ELISA	Positive Controls: WB : THP-1 cells, U-937 cells, HL-60 cells
Species Specificity: human	

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).

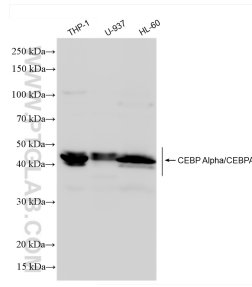
Storage

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

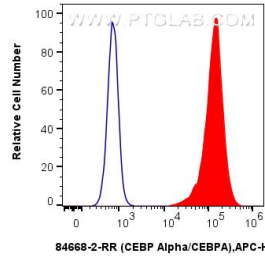
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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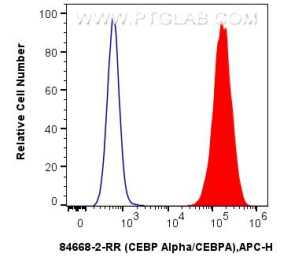
Selected Validation Data



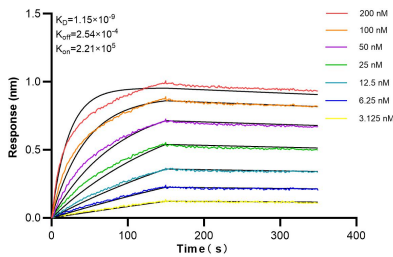
Various lysates were subjected to SDS PAGE followed by western blot with 84668-2-RR (CEBP Alpha/CEBPA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g CEBP Alpha/CEBPA Recombinant antibody (84668-2-RR, Clone:242101C10) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



1×10^6 HepG2 cells were intracellularly stained with 0.25 μ g CEBP Alpha/CEBPA Recombinant antibody (84668-2-RR, Clone:242101C10) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Bi-layer interferometry (BLI) kinetic assays of 84668-2-RR against Human CEBP Alpha/CEBPA were performed. The affinity constant is 1.15 nM.