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anti-CEBPA antibody (N-Term)

Images



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Target:

Quantity:	100 μL	
Target:	CEBPA	
Binding Specificity:	N-Term	
Reactivity:	Human, Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This CEBPA antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF),	
	Immunocytochemistry (ICC)	
Product Details		
Immunogen:	A synthesized peptide derived from human C/EBP alpha, corresponding to a region within N-	
	terminal amino acids.	
Isotype:	IgG	
Specificity:	C/EBP alpha Antibody detects endogenous levels of total C/EBP alpha.	
Predicted Reactivity:	Pig,Bovine	
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling	
	Resin (Thermo Fisher Scientific).	
Target Details		
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CEBPA

Restrictions:

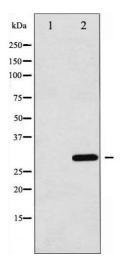
Target Details		
Alternative Name:	CEBPA (CEBPA Products)	
Background:	Description: Transcription factor that coordinates proliferation arrest and the differentiation of	
	myeloid progenitors, adipocytes, hepatocytes, and cells of the lung and the placenta. Binds	
	directly to the consensus DNA sequence 5'-T[TG]NNGNAA[TG]-3' acting as an activator on	
	distinct target genes (PubMed:11242107). During early embryogenesis, plays essential and	
	redundant functions with CEBPB. Essential for the transition from common myeloid progenitors	
	(CMP) to granulocyte/monocyte progenitors (GMP). Critical for the proper development of the	
	liver and the lung (By similarity). Necessary for terminal adipocyte differentiation, is required for	
	postnatal maintenance of systemic energy homeostasis and lipid storage (By similarity). To	
	regulate these different processes at the proper moment and tissue, interplays with other	
	transcription factors and modulators. Downregulates the expression of genes that maintain	
	cells in an undifferentiated and proliferative state through E2F1 repression, which is critical for	
	its ability to induce adipocyte and granulocyte terminal differentiation. Reciprocally E2F1 blocks	
	adipocyte differentiation by binding to specific promoters and repressing CEBPA binding to its	
	target gene promoters. Proliferation arrest also depends on a functional binding to SWI/SNF	
	complex (PubMed:14660596). In liver, regulates gluconeogenesis and lipogenesis through	
	different mechanisms. To regulate gluconeogenesis, functionally cooperates with FOXO1	
	binding to IRE-controlled promoters and regulating the expression of target genes such as	
	PCK1 or G6PC. To modulate lipogenesis, interacts and transcriptionally synergizes with	
	SREBF1 in promoter activation of specific lipogenic target genes such as ACAS2. In adipose	
	tissue, seems to act as FOXO1 coactivator accessing to ADIPOQ promoter through FOXO1	
	binding sites (By similarity).	
	Gene: CEBPA	
Molecular Weight:	30,43kDa	
Gene ID:	1050	
UniProt:	P49715	
Pathways:	Brown Fat Cell Differentiation, Positive Regulation of fat Cell Differentiation	
Application Details		
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000	
	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000	

For Research Use only

Handling

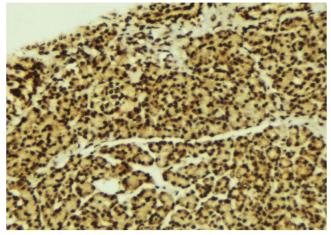
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



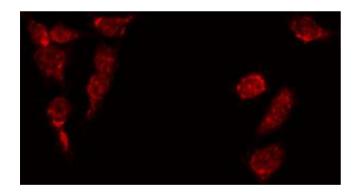
Western Blotting

Image 1. Western blot analysis of C/EBP-alpha expression in 293 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry

Image 2. ABIN6269272 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunofluorescence (fixed cells)

Image 3. ABIN6269272 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.