Datasheet for ABIN2854832

anti-CEBPA antibody (N-Term)

3 Images

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Overview

Quantity:	100 µL
Target:	CEBPA
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CEBPA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Chromatin Immunoprecipitation (ChIP), Immunoprecipitation (IP)

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human C/EBP alpha. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Sheep
Characteristics:	Rabbit polyclonal antibody to CEBP Alpha (CCAAT/enhancer binding protein (C/EBP), alpha) C/EBP alpha antibody [N1], N-term
Purification:	Purified by antigen-affinity chromatography.
Grade:	KO Validated

Target Details

Target:	CEBPA
Alternative Name:	CCAAT enhancer binding protein alpha (CEBPA Products)
Background:	The protein encoded by this intronless gene is a bZIP transcription factor which can bind as a homodimer to certain promoters and enhancers. 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, a protein that plays an important role in body weight homeostasis. Also, the encoded protein can interact with CDK2 and CDK4, thereby inhibiting these kinases and causing growth arrest in cultured cells. Cellular Localization: Nucleus
Molecular Weight:	38 kDa
Gene ID:	1050
UniProt:	P49715
Pathways:	Brown Fat Cell Differentiation, Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	WB: 1:500-1:3000. IP: 1:100-1:500. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: C2C12 Validation: KO/KD, Orthogonal
Restrictions:	For Research Use only

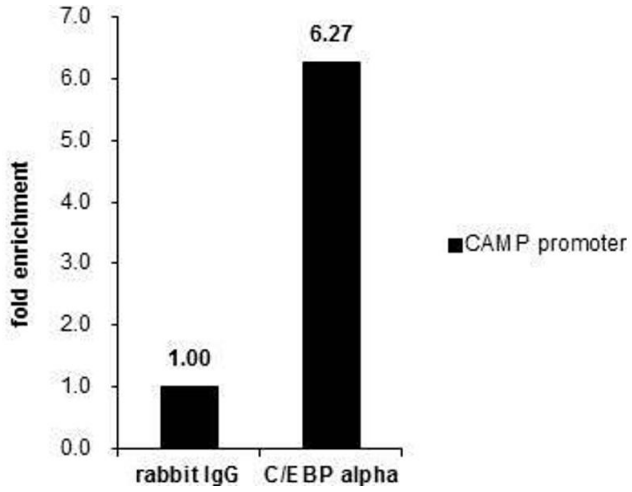
Handling

Format:	Liquid
Concentration:	0.59 mg/mL
Buffer:	1XPBS (pH 7), 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

Handling

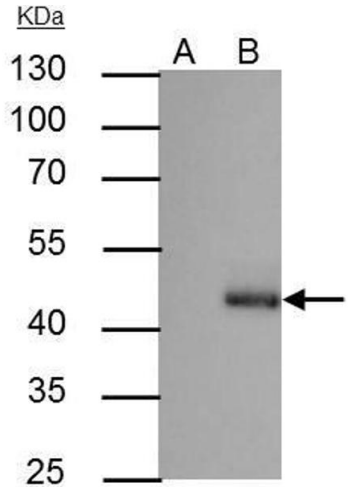
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



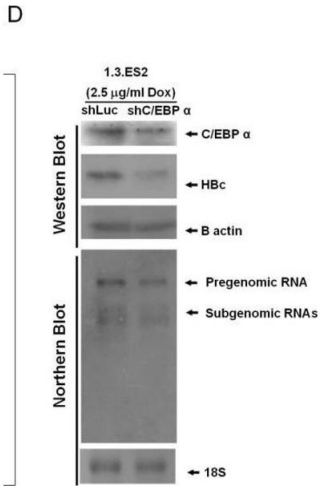
Chromatin Immunoprecipitation

Image 1. ChIP Image Cross-linked ChIP was performed with A549 chromatin extract and 5 µg of either control rabbit IgG or anti-C/EBP alpha antibody. The precipitated DNA was detected by PCR with primer set targeting to CAMP promoter.



Immunoprecipitation

Image 2. IP Image C/EBP alpha antibody immunoprecipitates C/EBP alpha protein in IP experiments. IP Sample: HepG2 whole cell lysate/extract A : Control with 3 µg of pre-immune rabbit IgG B : Immunoprecipitation of C/EBP alpha by 3 µg of C/EBP alpha antibody , 10% SDS-PAGE The immunoprecipitated C/EBP alpha protein was detected by C/EBP alpha antibody , diluted at 1 : 1000. EasyBlot anti-rabbit IgG (HRP) was used as a secondary reagent.



Western Blotting

Image 3. The elevation of C/EBPα by doxorubicin and its impact on activation of HBV replication.(A) The elevation of C/EBPα by doxorubicin. 1.3.ES2 was treated with doxorubicin for 1 hour and then the culture medium was replaced with fresh culture medium for three days. Next, total RNA was harvested in order to carry out quantitative RT-PCR. (B) The elevation of C/EBPα by p21 over-expression. 1.3.ES2 cells or HepG2 cells over-expressing

p21 were harvested for analysis of the expression level of C/EBPα by quantitative RT-PCR. (C) The role of p21 in doxorubicin-mediated C/EBPα elevation. 1.3.ES2 cells were infected with lentivirus expressing p21 shRNA. Twenty-four hours post-infection, cells were treated with doxorubicin for 1 hour, which was followed by replacing the culture medium with fresh culture medium. Culturing was then continued for 3 days. Next, total RNA was harvested for analysis of the expression level of C/EBPα by quantitative RT-PCR. The expression level of B2M was used as a reference control. (D) 1.3.ES2 cells were infected with lentivirus expressing C/EBPα shRNA for 24 hours, treated with doxorubicin for 1 hour, and this was followed by culturing in fresh culture medium for 3 days. The expression levels of HBV transcripts, HBcAg and C/EBPα were analyzed by Northern blot and Western blot.analysis, *, $P < 0.01$, 2-sided unpaired t test. - figure provided by CiteAb. Source: PMID26121644