



CREBBP Rabbit mAb

Catalog No	YP-rAb-17754
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	CREBBP CBP
Protein Name	CREB-binding protein (EC 2.3.1.48)
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	CREBBP ; CBP ; CREB-binding protein
Observed Band	300kD
Calculated Molecular Weight	265kD
Cell Pathway	Nucleus
Tissue Specificity	

Function

Acetylates histones, giving a specific tag for transcriptional activation . Also acetylates non-histone proteins, like DDX21, FBL, IRF2, MAFG, NCOA3, POLR1E/PAF53 and FOXO1 . Binds specifically to phosphorylated CREB and enhances its transcriptional activity toward cAMP-responsive genes. Acts as a coactivator of ALX1. Acts as a circadian transcriptional coactivator which enhances the activity of the circadian transcriptional activators: NPAS2-ARNTL/BMAL1 and CLOCK-ARNTL/BMAL1 heterodimers . Acetylates PCNA; acetylation promotes removal of chromatin-bound PCNA and its degradation during nucleotide excision repair (NER) . Acetylates POLR1E/PAF53, leading to decreased association of RNA polymerase I with the rDNA promoter region and coding region . Acetylates DDX21, thereby inhibiting DDX21 helicase activity . Acetylates FBL, preventing methylation of 'Gln-105' of histone H2A (H2AQ104me) . Functions as a transcriptional coactivator for SMAD4 in the

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TGF-beta signaling pathway .

Background

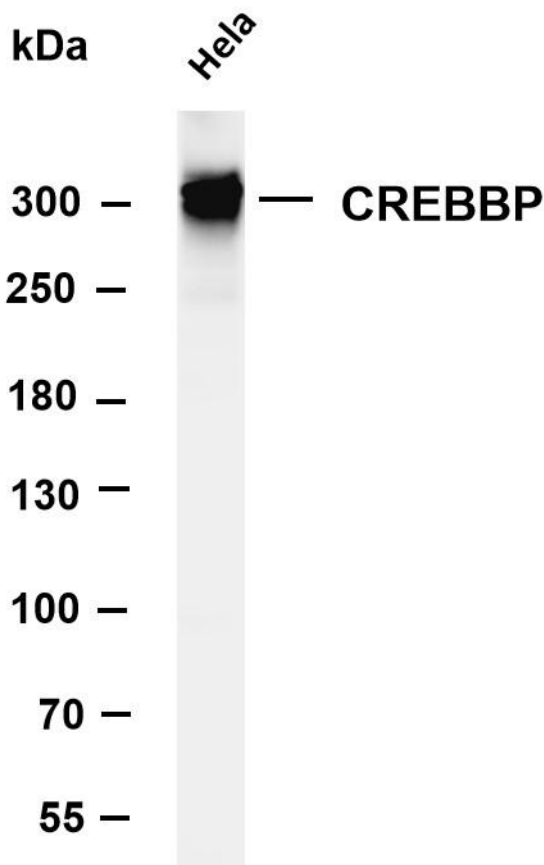
CREB binding protein(CREBBP) Homo sapiens This gene is ubiquitously expressed and is involved in the transcriptional coactivation of many different transcription factors. First isolated as a nuclear protein that binds to cAMP-response element binding protein (CREB), this gene is now known to play critical roles in embryonic development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. The protein encoded by this gene has intrinsic histone acetyltransferase activity and also acts as a scaffold to stabilize additional protein interactions with the transcription complex. This protein acetylates both histone and non-histone proteins. This protein shares regions of very high sequence similarity with protein p300 in its bromodomain, cysteine-histidine-rich regions, and histone acetyltransferase domain. Mutations in this gene cause Rubinstein-Taybi syndrome (RTS). Chromosomal translocations invo

matters needing attention

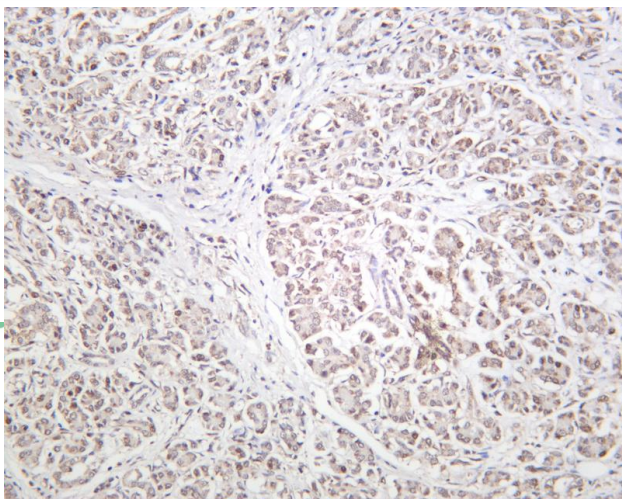
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

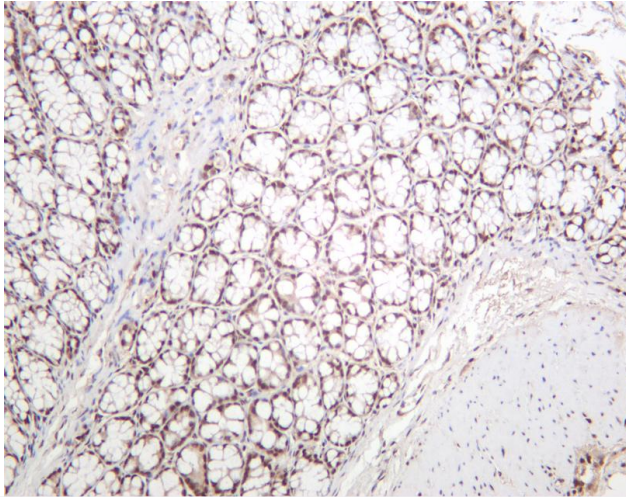


Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-CREBBP antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Predicted band size: 300kDa Observed band size: 300kDa

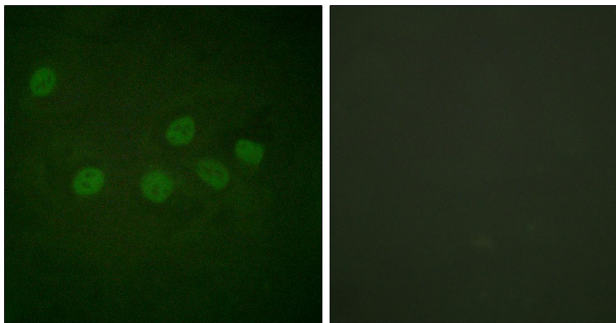


Human pancreas was stained with anti-CREBBP rabbit antibody

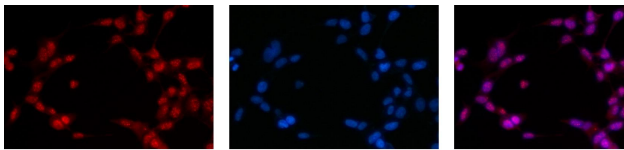




Mouse colon was stained with anti-CREBBP rabbit antibody



Immunofluorescence analysis of HeLa cells, using CBP Antibody. The picture on the right is blocked with the synthesized peptide.



Immunofluorescence analysis of HEK293. Picture A: CREBBP antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

A

B

C

