Best Tools for immunology Research

CREBBP (PT0526R) PT® Rabbit mAb

Catalog No :	YM8348
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	CREBBP
Gene Name :	CREBBP CBP
Protein Name :	CREB-binding protein (EC 2.3.1.48)
Human Gene Id :	1387
Human Swiss Prot No :	Q92793
Mouse Swiss Prot No :	P45481
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
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;
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	300kD
Observed Band :	300kD
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

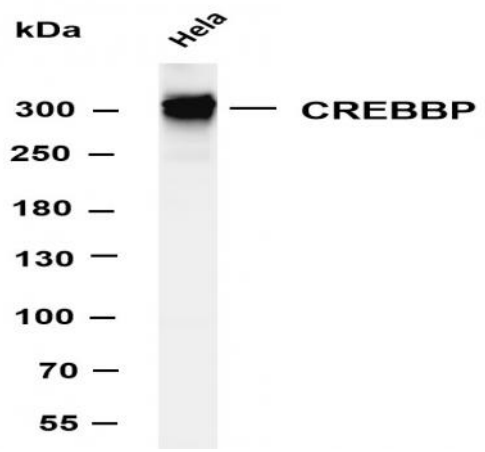
Function :

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) .

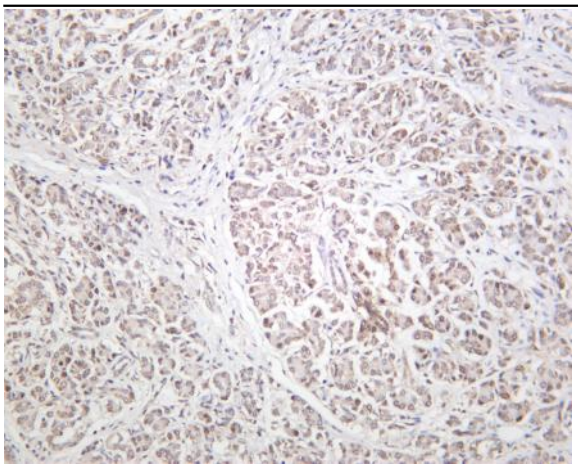
Subcellular Location :

Nucleus

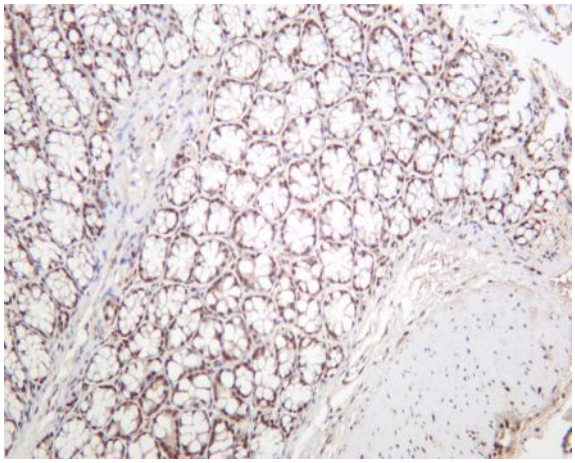
Products Images



Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-CREBBP (PT0526R) 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 (PT0526R) rabbit antibody



Mouse colon was stained with anti-CREBBP (PT0526R) rabbit antibody