

产品名称: CBP Rabbit Polyclonal Antibody
产品货号: APRab08041



产品概述 (Summary)

产品名称 (Production Name)	CBP Rabbit Polyclonal Antibody
描述 (Description)	Rabbit Polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	IF,IHC,WB,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	CREBBP
别名 (Alternative Names)	CREBBP; CBP; CREB-binding protein
基因 ID (Gene ID)	1387.0
蛋白 ID (SwissProt ID)	Q92793.The antiserum was produced against synthesized peptide derived from human CBP. AA range:1501-1550

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
蛋白分子量 (Molecular Weight)	265kD

产品名称: CBP Rabbit Polyclonal Antibody
产品货号: AP Rab08041



研究背景 (Background)

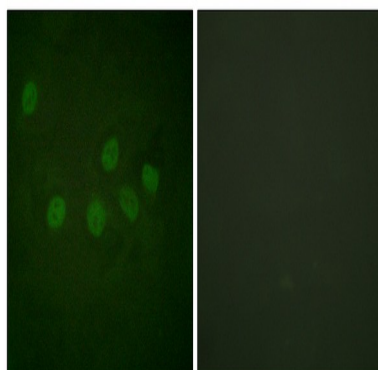
This gene is ubiquitously expressed and is involved in the transcriptional coactivation of many different transcription factors. First isolated as a nuclear protein that binds to cAMP-response element binding protein (CREB), this gene is now known to play critical roles in embryonic development, growth 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 involving CREBBP may be a cause of acute myeloid leukemias. Translocation t(8;16)(p11;p13) with MYST3/MOZ; translocation t(11;16)(q23;p13.3) with MLL/HRX; translocation t(10;16)(q22;p13) with MYST4/MORF. MYST3-CREBBP may induce leukemia by inhibiting RUNX1-mediated transcription. Defects in CREBBP are a cause of Rubinstein-Taybi syndrome (RSTS) [MIM:180849]. RSTS is an autosomal dominant disorder characterized by craniofacial abnormalities, broad thumbs, broad big toes, mental retardation and a propensity for development of malignancies. The KIX domain mediates binding to HIV-1 Tat. Acetylates histones, giving a specific tag for transcriptional activation. Also acetylates non-histone proteins, like NCOA3 coactivator. Binds specifically to phosphorylated CREB and enhances its transcriptional activity toward cAMP-responsive genes. P300/CBP entry, PTM: Methylation of the KIX domain by CARM1 blocks association with CREB. This results in the blockade of CREB signaling, and in activation of apoptotic response. PTM: Phosphorylated upon DNA damage, probably by ATM or ATR. PTM: Sumoylation negatively regulates transcriptional activity via the recruitment of DAAX. Similarity: Contains 1 bromo domain. Similarity: Contains 1 KIX domain. Similarity: Contains 1 ZZ-type zinc finger. Similarity: Contains 2 TAZ-type zinc fingers. Subunit: Found in a complex containing NCOA2; NCOA3; IKKA; IKKB and IKBKG. Probably part of a complex with HIF1A and EP300. Interacts with phosphorylated CREB1. Interacts with the C-terminal region of CITED4. The TAZ-type 1 domain interacts with HIF1A. Interacts with MAF, SRCAP, CARM1, ELF3, MLLT7/FOXO4, N4BP2, NCOA1, NCOA3, NCOA6, PCAF, PELP1, PML, SMAD1, SMAD2, SMAD3, SPIB and TRERF1. Interacts with HTLV-1 Tax and p30II. Interacts with HIV-1 Tat. Interacts with KLF1; the interaction results in acetylation of KLF1 and enhancement of its transcriptional activity. Interacts with ZCCHC12 (By similarity). Interacts with DAXX; the interaction is dependent on CBP sumoylation and results in suppression of the transcriptional activity via recruitment of HDAC2 to DAAX (By similarity). Interacts with MTDH. Interacts with NFATC4. Interacts with MAFG; the interaction acetylates MAFG in the basic region and stimulates NFE2 transcriptional activity through increasing its DNA-binding activity. Interacts with IRF2; the interaction acetylates IRF2 and regulates its activity on the H4 promoter.

研究领域 (Research Area)

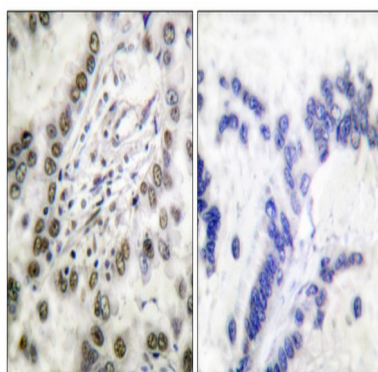
Regulates Angiogenesis; Protein_Acetylation

图片 (Image Data)

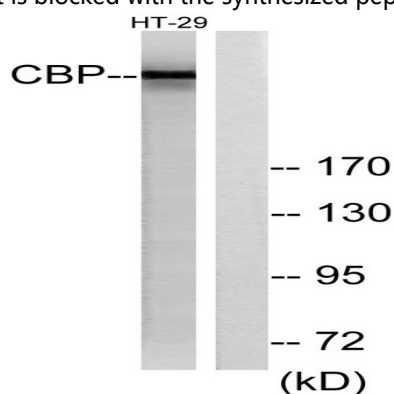
产品名称: CBP Rabbit Polyclonal Antibody
产品货号: APRab08041



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

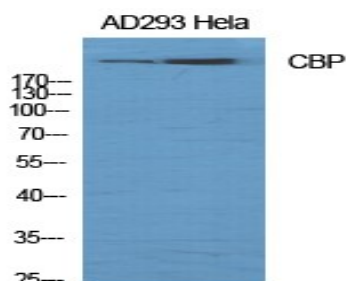


Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using CBP Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HT-29 cells, treated with calyculinA 50ng/ml 30 ', using CBP Antibody. The lane on the right is blocked with the synthesized peptide.

产品名称: CBP Rabbit Polyclonal Antibody
产品货号: AP Rab08041



Western Blot analysis of various cells using CBP Polyclonal Antibody diluted at 1: 1000



Western Blot analysis of HT29 cells using CBP Polyclonal Antibody diluted at 1: 1000

注意事项 (Note)

For research use only .