

CREBBP Rabbit pAb

CatalogNo: YT0693

Orthogonal Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 265kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000**IHC 1:100-1:300****IF 1:200-1:1000****ELISA 1:20000****Not yet tested in other applications.**

Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human CBP. AA range:1501-1550

Specificity

CBP Polyclonal Antibody detects endogenous levels of CBP protein.

| Target Information

Gene name CREBBP CBP

Protein Name CREB-binding protein

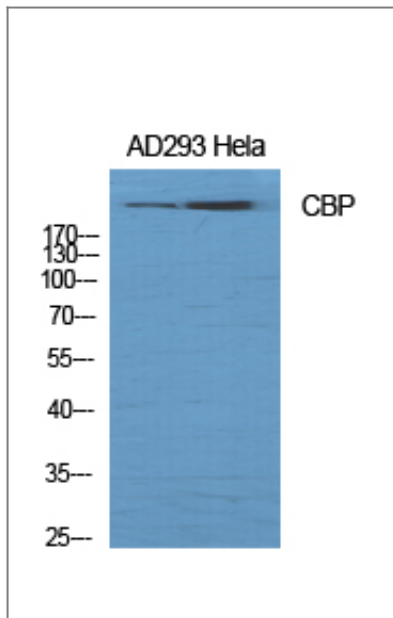
Organism	Gene ID	UniProt ID
Human	1387 ;	Q92793 ;
Mouse		P45481 ;
Rat		Q6JHU9 ;

Cellular Localization Cytoplasm. Nucleus. Recruited to nuclear bodies by SS18L1/CREST. In the presence of ALX1 relocalizes from the cytoplasm to the nucleus.

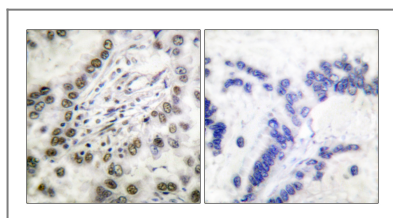
Tissue specificity Acute myeloid leukemia,Brain,Epithelium,

Function Catalytic activity:Acetyl-CoA + histone = CoA + acetylhistone.,Disease:Chromosomal aberrations 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.,Disease: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.,Domain:The KIX domain mediates binding to HIV-1 Tat.,Function: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.,online information: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.,

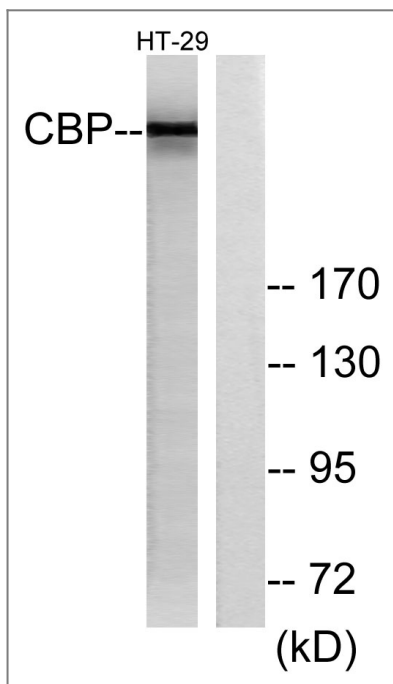
| Validation Data



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



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.

Contact information

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