abcam

Product datasheet

Anti-CREBBP antibody ab10489

4 References 2 图像

概述

产品名称	Anti-CREBBP抗体
描述	兔多克隆抗体to CREBBP
宿主	Rabbit
经测试应用	**适用于:** IP, WB
种属反应性	**与反应:** Human **预测可用于:** Chimpanzee
免疫原	Synthetic peptide corresponding to Human CREBBP. Within exon 17.
阳性对照	Lysate from HeLa cells.
常规说明	Cyclic AMP-responsive enhancer binding protein (CREB) binding protein (CBP) and p300 are closely related transcriptional coactivators that have been shown to directly interact with many different DNA-binding transcription factors including nuclear hormone receptors, CREB (cyclic AMP-responsive enhancer binding protein), c-Fos, c-Jun/v-Jun, c-Myb/v-Myb, TFIIB and MyoD.Both CBP and p300 have been shown to display histone acetyltransferase (HAT) activity, capable of acetylating all four core histone particles in nucleosomes.As a result of HAT activity, it has been suggested CBP and p300 may play a direct role in activating chromatin for transcription.Single point mutations in CBP have been proposed as causative factors in the developmental abnormalities of Rubinstein-Taybi syndrome (RTS).Although both CBP and p300 appear to function similarly, the inability of p300 to rescue CBP malfunction iRTS suggests intrinsic functional differences between CBP and p300. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.

存储溶液	pH: 7 Preservative: 0.1% Sodium azide Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris
纯度	Immunogen affinity purified
纯化说明	Antibodies were affinity purified using the peptide immobilized on solid support.
Primary antibody说明	Cyclic AMP-responsive enhancer binding protein (CREB) binding protein (CBP) and p300 are closely related transcriptional coactivators that have been shown to directly interact with many different DNA-binding transcription factors including nuclear hormone receptors, CREB (cyclic AMP-responsive enhancer binding protein), c-Fos, c-Jun/v-Jun, c-Myb/v-Myb, TFIIB and MyoD.Both CBP and p300 have been shown to display histone acetyltransferase (HAT) activity, capable of acetylating all four core histone particles in nucleosomes.As a result of HAT activity, it has been suggested CBP and p300 may play a direct role in activating chromatin for transcription.Single point mutations in CBP have been proposed as causative factors in the developmental abnormalities of Rubinstein-Taybi syndrome (RTS).Although both CBP and p300 appear to function similarly, the inability of p300 to rescue CBP malfunction iRTS suggests intrinsic functional differences between CBP and p300.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab10489**于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

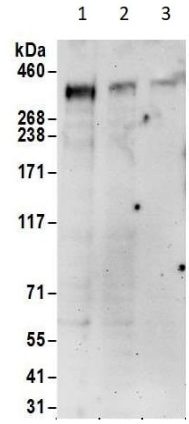
应用	Ab评论	说明
IP		Use a concentration of 1 - 4 µg/ml.
WB		Use a concentration of 0.4 µg/ml. Predicted molecular weight: 265 kDa.

靶标

功能	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. Acts as a coactivator of ALX1 in the presence of EP300.
疾病相关	Note=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. Defects in CREBBP are a cause of Rubinstein-Taybi syndrome type 1 (RSTS1) [MIM:180849]. RSTS1 is an autosomal dominant disorder characterized by craniofacial abnormalities, broad thumbs, broad big toes, mental retardation and a propensity for development of malignancies.
序列相似性	Contains 1 bromo domain. Contains 1 KIX domain. Contains 2 TAZ-type zinc fingers.

	Contains 1 ZZ-type zinc finger.
结构域	The KIX domain mediates binding to HIV-1 Tat.
翻译后修饰	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. Phosphorylated upon DNA damage, probably by ATM or ATR. Sumoylation negatively regulates transcriptional activity via the recruitment of DAAX.
细胞定位	Cytoplasm. Nucleus. Recruited to nuclear bodies by SS18L1/CREST. In the presence of ALX1 relocalizes from the cytoplasm to the nucleus.

图片



Western blot - Anti-CREBBP antibody (ab10489)

All lanes : Anti-CREBBP antibody (ab10489) at 0.4 µg/ml

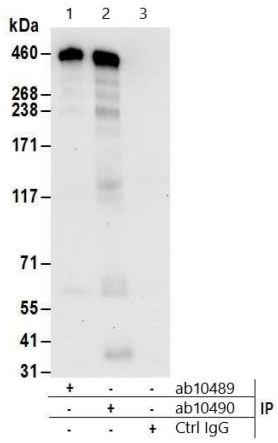
Lane 1 : HeLa cell lysate at 50 µg

Lane 2 : HeLa cell lysate at 15 µg

Lane 3 : HeLa cell lysate at 5 µg

Predicted band size: 265 kDa

Exposure time: 3 minutes



Immunoprecipitation - Anti-CREBBP antibody (ab10489)

ab10489 immunoprecipitating CREBBP at 6 µg/ml lysate.

Lane 1: Anti-CREBBP antibody ab10489 in HeLa whole cell extract (1 mg per IP reaction; 20% of IP loaded).

Lane 2: Anti-CREBBP antibody **ab10490** in HeLa whole cell extract (1 mg per IP reaction; 20% of IP loaded).

Lane 3: IgG control.

For blotting immunoprecipitated CREBBP, ab10489 was used at 1 µg/mL.

Detection: Chemiluminescence with an exposure time of 30 seconds.

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