abcam

Product datasheet

Recombinant Human CREBBP protein ab56272

1 Image

Description

Product name Recombinant Human CREBBP protein

Purity > 90 % Densitometry.

Expression system Escherichia coli

Protein length Protein fragment

Animal free No

Nature Recombinant

Species Human

Amino acids 1319 to 1710

Specifications

Our <u>Abpromise guarantee</u> covers the use of ab56272 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 7.50

Constituents: 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 25% Glycerol (glycerin,

glycerine), 0.87% Sodium chloride

General Info

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. Acts as a coactivator of ALX1 in the

presence of EP300.

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Involvement in diseaseNote=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.

Sequence similarities Contains 1 bromo domain.

Contains 1 KIX domain.

Contains 2 TAZ-type zinc fingers. Contains 1 ZZ-type zinc finger.

Domain The KIX domain mediates binding to HIV-1 Tat.

Post-translational Methylation of the KIX domain by CARM1 blocks association with CREB. This results in the

modifications blockade of CREB signaling, and in activation of apoptotic response.

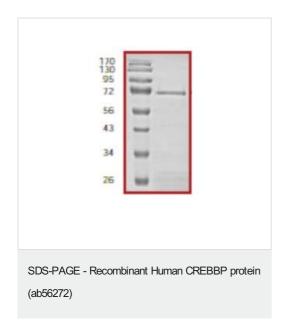
Phosphorylated upon DNA damage, probably by ATM or ATR.

Sumoylation negatively regulates transcriptional activity via the recruitment of DAAX.

Cytoplasm. Nucleus. Recruited to nuclear bodies by SS18L1/CREST. In the presence of ALX1

relocalizes from the cytoplasm to the nucleus.

Images



ab56272 on SDS-PAGE.

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