abcam

Product datasheet

Recombinant Human CREBBP protein (His tag) ab198144

1 Image

Description

Product name	Recombinant Human CREBBP protein (His tag)
Purity	> 98 % SDS-PAGE.
Expression system	Escherichia coli
Accession	Q92793
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	RKKIFKPEELRQALMPTLEALYRQDPESLPFRQPVDP QLLGIPDYFDIVK NPMDLSTIKRKLDTGQYQEPWQYVDDVWLMFNNAWL YNRKTSRVYKFCSK LAEVFEQEIDPVMQSLG
Predicted molecular weight	15 kDa including tags
Amino acids	1081 to 1197
Tags	His tag N-Terminus
Additional sequence information	GenBank Accession No. NM_004380

Specifications

Our Abpromise guarantee covers the use of **ab198144** 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. Store at -80°C. Avoid freeze / thaw cycle.
	pH: 8.0

Constituents: 0.71% Tris HCl, 0.72% Sodium chloride, 0.02% Potassium chloride, 10% Glycerol

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.

Involvement in disease

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.

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.

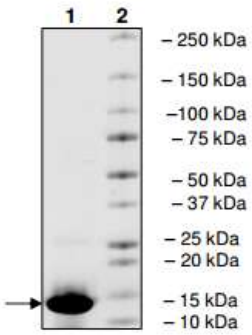
Post-translational modifications

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.

Cellular localization

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

Images



SDS-PAGE - Recombinant Human CREBBP protein (His tag) (ab198144)

4-20% SDS-PAGE Coomassie staining. Lane 1: 6 µg ab198144. Lane 2: Protein Marker

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