

Recombinant Human CREBBP protein ab135297

[1 References](#) [1 Image](#)

Description

Product name Recombinant Human CREBBP protein

Purity > 90 % SDS-PAGE.
Affinity purified.

Expression system Baculovirus infected Sf9 cells

Accession [Q92793](#)

Protein length Protein fragment

Animal free No

Nature Recombinant

Species Human

Sequence

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MRTLNPLGNNPMNIPAGGITDQQPPNLISESALPTSLGAT
NPLMNDGS
NSGNIGTLSTIPTAAPPSSSTGVRKGWHEHVTDLRSHLVH
KLVQAIFPT PDPAALKDR
RMENLVAYAKKVEGDMYESANSRDEYYHLLAEKIYKIQK
ELEEKRRSRLHKQGILGNQ
PALPAPGAQPPVIPQAQPVRRPPNGPLSLP
VNRMQVSQGMNSFNPMSLGNVQLPQAPMG
PRAASPMNHSVQMNSMGSV
PGMAISPSRMPQPPNMMGAHTNNMMAQAPAQSQFLPQN
Q FPSSSGAMS
VGMGQPPAQTGVSQGVGAALPNPLNMLGPQASQLPC
PPVTQSPLHPT
PPPASTAAGMPSLQHTTTPPGMTTPPQAAAPTQPSTPVSSS
GQTPTPTPGS VPSATQTQS
TPTVQAAAQAQVTPQPQTPVQPPSVATPQSSQQQPTPV
H AQPPGTPLSQAAASIDNRV
PTPSSVASAETNSQQPGDVPVLEMKTET
QAEDTEPDGEGESKGEPRSEMMEEDLQGAS
QVKEETDIAEQKSEPMEVD
EKKPEVKVEVKEEEEESSNGTASQSTSPSQPRKKIFKPE
ELRQALMPT
LEALYRQDPESLPFRQPVDPQLLGIPDYFDIVKNPMDLSTI
KRKLDTGQ
YQEPWQYVDDVWLMFNNAWLNRKTSRVYKFCSKLAEV
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Predicted molecular weight	51 kDa
Amino acids	518 to 1207

Specifications

Our **Abpromise guarantee** covers the use of **ab135297** 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 Western blot
Form	Liquid

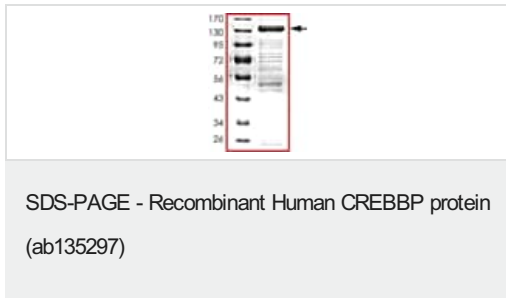
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride
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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 analysis of ab135297.

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