

Recombinant human CREBBP protein ab198130

1 References 2 Images

Description	
Product name	Recombinant human CREBBP protein
Biological activity	Assay was performed using a KAT3A / CBP Inhibitor Screening Assay Kit.
Purity	>= 96 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>Q92793</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDK WRNKKFELGL EFPNLPYYIDGDVKLTQSMAIRYADKHNMMLGGCPKERAEI SMLEGAVL DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKT YLNGDHVTH PDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIQIDK YKSSKYIA WPLQGWQATFGGGDHPPKSDLEVLFGGPLGSRKKIFKP EELRQALMPTLE ALYRQDPESLPFRQPVPDQLLGIPDYFDIVKNPMDLSTIKR KLDTGQYQE PWQYVDDVWLMFNNAWLNRKTSRVYKFCSKLAEVFEQ EIDPVMQSLG
Predicted molecular weight	41 kDa including tags
Amino acids	1081 to 1197
Tags	GST tag N-Terminus
Additional sequence information	Bromodomain; NM_004380.

Specifications

Our Abpromise guarantee covers the use of **ab198130** 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
Functional Studies

Form Liquid

Preparation and Storage

Stability and Storage Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.
pH: 8.00
Constituents: 0.04% Tween, 20% Glycerol (glycerin, glycerine), 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride
This product is an active protein and may elicit a biological response in vivo, handle with caution.

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.

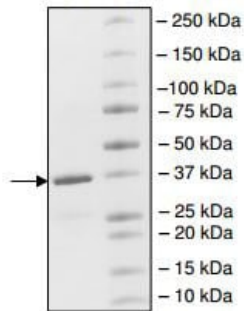
Sequence similarities Contains 1 bromo domain.
Contains 1 KIX domain.
Contains 2 TAZ-type zinc fingers.
Contains 1 ZZ-type zinc finger.

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.

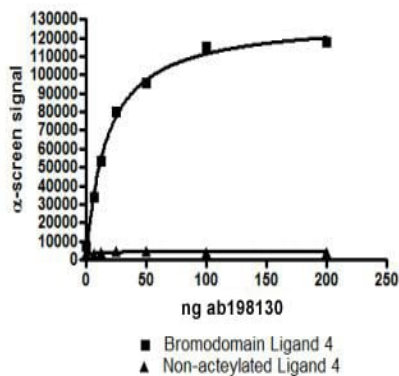
Cellular localization Cytoplasm. Nucleus. Recruited to nuclear bodies by SS18L1/CREST. In the presence of ALX1 relocalizes from the cytoplasm to the nucleus.

Images



SDS-PAGE - Recombinant human CREBBP protein
(ab198130)

4-20% SDS-PAGE analysis of ab198130 (2µg).



Activity assay using ab198130.

Functional Studies - Recombinant human CREBBP
protein (ab198130)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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