

Product datasheet

Recombinant human CREBBP protein ab167964

5 Images

Description

<b>Product name</b>	Recombinant human CREBBP protein
<b>Biological activity</b>	The specific activity of ab167964 was determined to be 32 nmol/min/mg as per activity assay protocol.
<b>Purity</b>	> 90 % SDS-PAGE. Assessed by densitometry.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Accession</b>	<a href="#">Q92793</a>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<pre> RK ENKFSAKRLQ TTRLGNHLED RVNKFLRRQN HPEAGEVFVR VVASSDKTVE VKPGMKSRFV DSGEMSEFP YRTKALFAFE EIDGVDVCFE GMHVQEYGS DPPPNTRRVY ISYLD SIHFF RPRCLRTAVY HEILIGYLEY VKKLG YVTGH WACPPSEGD DYIFHCHPPD QKIPKPKRLQ EWYKMLDKA FAERIIHDYK DIFKQATEDR LTS AKELPYF EGDFWPNVLE ESIKELEQEE EERKKEESTA ASETTEGSQG DSKNAKKKNN KKTNKNKSSI SRANKKPSM PNVSN DLSQK LYATMEKHKE VFFVIHLHAG PVINTLPPIV DPDPLLSCDL MDGRDAFLTL ARDKHWEFSS LRRSKWSTLC MLVELHTQGG DRFVYTCNEC </pre>
<b>Predicted molecular weight</b>	72 kDa including tags
<b>Amino acids</b>	1319 to 1710
<b>Tags</b>	proprietary tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab167964** in the following tested applications.

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

**Applications** Western blot

Functional Studies

SDS-PAGE

**Form** Liquid

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## 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), 0.29% Sodium chloride  
This product is an active protein and may elicit a biological response in vivo, handle with caution.

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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.

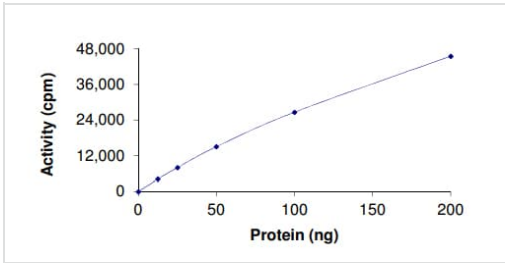
**Domain** The KIX domain mediates binding to HIV-1 Tat.

**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.

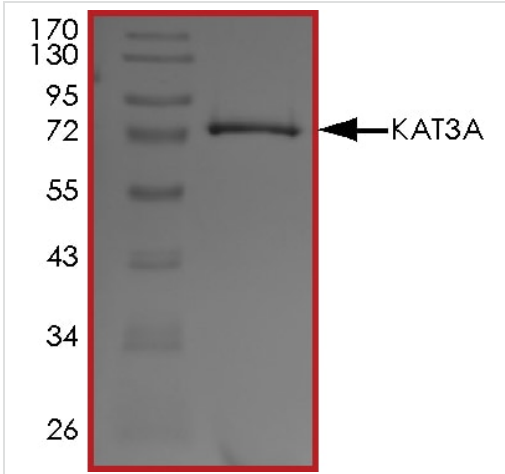
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## Images



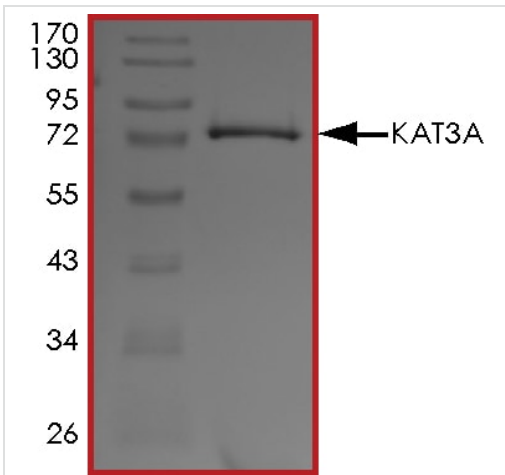
The specific activity of CREBBP (ab167964) was determined to be 33 nmol/min/mg as per activity assay protocol

Functional Studies - Recombinant human CREBBP protein (ab167964)



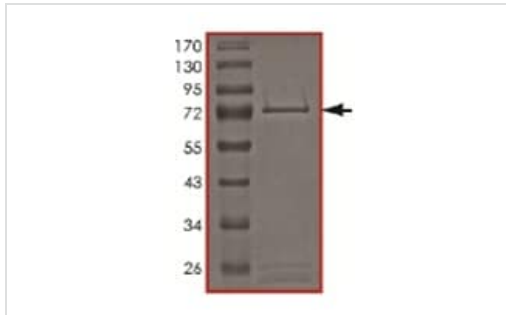
SDS PAGE analysis of ab167964

SDS-PAGE - Recombinant human CREBBP protein (ab167964)



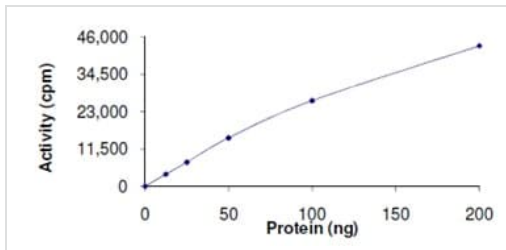
SDS PAGE analysis of ab167964

SDS-PAGE - Recombinant human CREBBP protein (ab167964)



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Functional Studies - Recombinant human CREBBP protein (ab167964)

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

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