

Recombinant human CREBBP protein ab167964

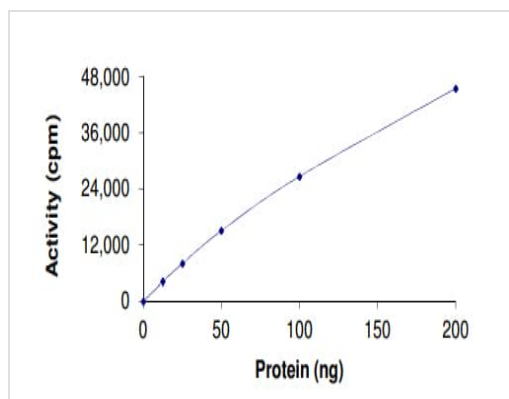
5 Images

Description	
Product name	Recombinant human CREBBP protein
Biological activity	The specific activity of ab167964 was determined to be 32 nmol/min/mg as per activity assay protocol.
Purity	> 90 % SDS-PAGE. Assessed by densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>Q92793</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	RK ENKFSAKRLQ TTRLGNHLED RVNKFLRRQN HPEAGEVFVR VVASSDKTVE VKPGMKSRFV DSGEMSESPF YRTKALFAFE EIDGVDVCFF GMHVQEYGSD CPPPNTRRVY ISYLD SIHFF RPRCLRTAVY HEILIGLEY VKKLG VYTGHWACPPSEGD DYIFHCHPPD QKIPKPKRLQ EWYKKMLDKA FAERIHDYK DIFKQATEDR L TSAKELPYF EGDFWPNVLE ESIKELEQEE EERKKEESTA ASETTEGSQG DSKNAKKKNN KKTNKNKSSI SRANKKKPSM PNVSNDLSQK LYATMEKHKE VFFVIHLHAG PVINTLPPV DPDPLLSCDL MDGRDAFTL ARDKHWEFSS LRRSKWSTLC MLVELHTQGQ DRFVYTCNEC
Predicted molecular weight	72 kDa including tags
Amino acids	1319 to 1710
Tags	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

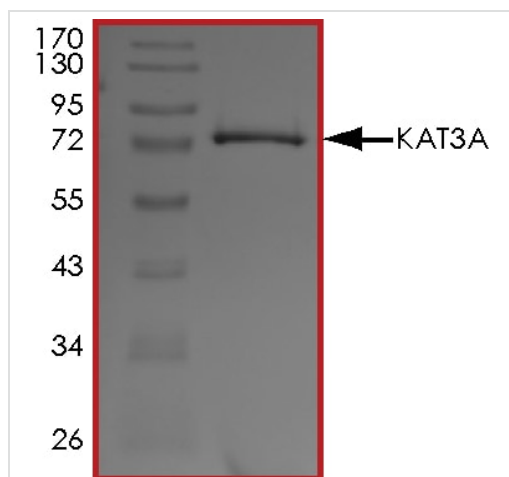
	Functional Studies
	SDS-PAGE
Form	Liquid
Preparation and Storage	
Stability and Storage	<p>Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.</p> <p>pH: 7.50</p> <p>Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.29% Sodium chloride</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>
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	<p>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.</p> <p>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.</p>
Sequence similarities	<p>Contains 1 bromo domain.</p> <p>Contains 1 KIX domain.</p> <p>Contains 2 TAZ-type zinc fingers.</p> <p>Contains 1 ZZ-type zinc finger.</p>
Domain	The KIX domain mediates binding to HIV-1 Tat.
Post-translational modifications	<p>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.</p> <p>Phosphorylated upon DNA damage, probably by ATM or ATR.</p> <p>Sumoylation negatively regulates transcriptional activity via the recruitment of DAAX.</p>
Cellular localization	Cytoplasm. Nucleus. Recruited to nuclear bodies by SS18L1/CREST. In the presence of ALX1 relocalizes from the cytoplasm to the nucleus.

Images



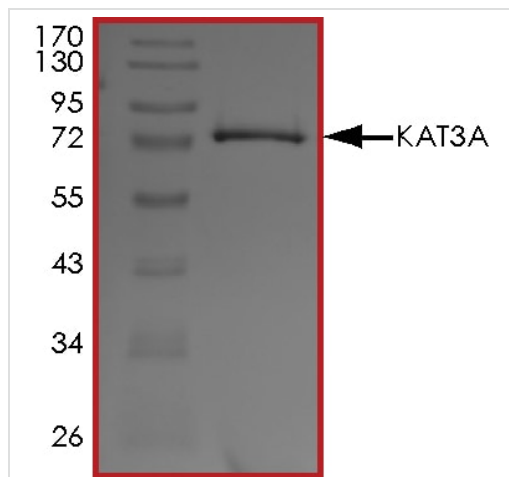
The specific activity of CREBBP (ab167964) was determined to be 33 nmol/min/mg as per activity assay protocol

Functional Studies - Recombinant human CREBBP protein (ab167964)



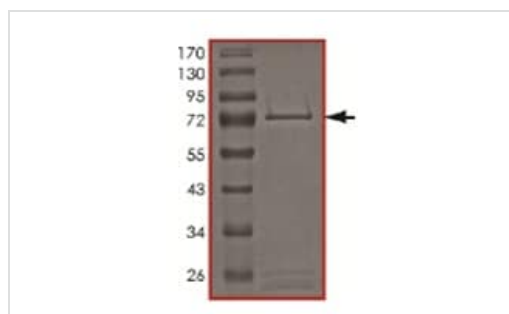
SDS PAGE analysis of ab167964

SDS-PAGE - Recombinant human CREBBP protein (ab167964)



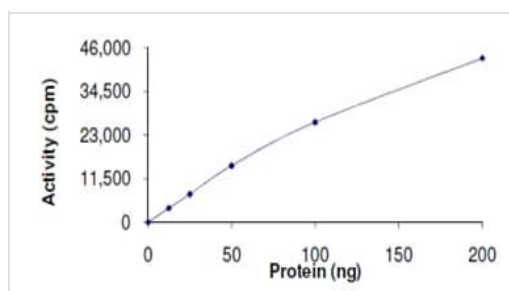
SDS PAGE analysis of ab167964

SDS-PAGE - Recombinant human CREBBP protein (ab167964)



SDS Page analysis of ab167964

SDS-PAGE - Recombinant human CREBBP protein (ab167964)



The specific activity of ab167964 was determined to be 32 nmol/min/mg as per activity assay protocol.

Functional Studies - Recombinant human CREBBP protein (ab167964)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors