

Datasheet for ABIN2669638

CBP Protein (AA 1081-1197) (His tag,DYKDDDDK Tag)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	CBP (CREBBP)
Protein Characteristics:	AA 1081-1197
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CBP protein is labelled with His tag,DYKDDDDK Tag.
Application:	Binding Studies (Bind), Screening Assay (ScA)

Product Details

Characteristics:	The peptide corresponding to amino acids 1081 - 1197 that contains the bromodomain sequences of CREBBP (accession number NM_004380.2) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag with an observed molecular weight of 18.7 kDa. It shows binding specificity for acetylated H2BK85, H3K9/K14, H3K14, H3K36, H3K56, H3S10/K14/K18, H4K12, H4K20 and H4K44, as well as acetylated p53-K382 , MyoD-K99 and MyoD-K99/K102.
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Target Details

Target:	CBP (CREBBP)
Alternative Name:	CREBBP (CREBBP Products)
Background:	CREB-binding protein (CREBBP) or CBP, is a protein known to play critical roles in embryonic

Target Details

development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. CREBBP shares regions of very high sequence similarity with protein p300 in its bromodomain, cysteine-histidine-rich regions, and histone acetyltransferase domain. The CREBBP bromodomain recognizes acetylated histone lysine residues and functions as a 'reader' of these epigenetic histone marks to regulate chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. CREBBP has intrinsic histone acetyltransferase activity and also acts as a scaffold to stabilize additional protein interactions with the transcription complex. CREBBP acetylates histones as well as non-histone proteins, like NCOA3 coactivator. In addition, CREBBP binds specifically to phosphorylated CREB and enhances its transcriptional activity toward cAMP-responsive genes. CREBBP also has been shown to act as a coactivator of ALX1 in the presence of p300.

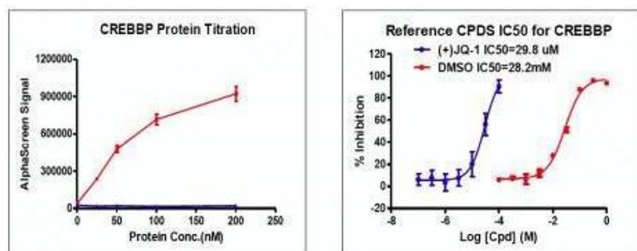
Molecular Weight:	18.7 kDa
Pathways:	TCR Signaling , Interferon-gamma Pathway , Stem Cell Maintenance , Chromatin Binding , Regulation of Lipid Metabolism by PPARalpha

Application Details

Application Notes:	Recombinant CREBBP (1081-1197) is suitable for use in binding assays, inhibitor screening, and selectivity profiling.
Restrictions:	For Research Use only

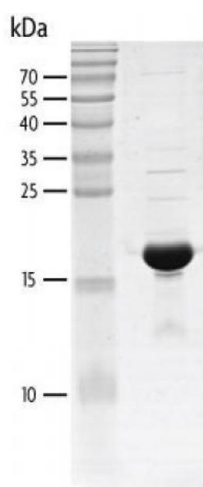
Handling

Handling Advice:	Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Storage:	-80 °C
Storage Comment:	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation.



Screening Assay

Image 1. Recombinant CREBBP (1081-1197) activity using AlphaScreen. CREBBP (1081-1197) titration were assessed using an AlphaScreen® assay. Titration curves were generated to show signal response in the presence of modified peptide substrate at increasing protein concentrations. This data was generated and kindly provided courtesy of ChemPartner.



Western Blotting

Image 2. Recombinant CREBBP (1081-1197) protein gel. CREBBP (1081-1197) protein was run on an SDS-PAGE gel and stained with Coomassie blue.