

Active Recombinant Human CREBBP, GST-tagged

Cat. No. CREBBP-192H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KAT3A (CREBBP) (1319-1710) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1319-1710 a.a.
Description	KAT3A has intrinsic histone acetyltransferase activity that acts as a scaffold to stabilize additional protein interactions with the transcription complex and acetylates both histone and non-histone proteins. KAT3A (CREBBP) expressed as a nuclear protein that binds to cAMP-response element binding protein (CREB) and involved in the transcriptional coactivation of many different transcription factors. KAT3A plays a main role in embryonic development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. KAT3A also plays a critical role in the transmission of inductive signals from cell surface receptors to the transcriptional apparatus.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	The specific activity of KAT3A (CREBBP) was determined to be 32 nmol /min/mg
Molecular Mass	~72 kDa

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Purity	>90% by densitometry
Applications	Acetyltransferase Assay
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl

GENE INFORMATION

Gene Name	CREBBP CREB binding protein [Homo sapiens]
Official Symbol	CREBBP
Synonyms	CREBBP; CREB binding protein; RSTS, Rubinstein Taybi syndrome; CREB-binding protein; CBP; KAT3A; RTS; RSTS;
Gene ID	1387
mRNA Refseq	NM_001079846
Protein Refseq	NP_001073315
MIM	600140
UniProt ID	Q92793
Chromosome Location	16p13.3

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Pathway

Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Angiogenesis, organism-specific biosystem; BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Cell cycle, organism-specific biosystem;

Function

DNA binding; MyoD binding; RNA polymerase II activating transcription factor binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in negative regulation of transcription; RNA polymerase II transcription coactivator activity; RNA polymerase II transcription factor binding; RNA polymerase II transcription factor binding transcription factor activity involved in negative regulation of transcription; SMAD binding; acetyltransferase activity; chromatin binding; core promoter proximal region sequence-specific DNA binding; histone acetyltransferase activity; histone acetyltransferase activity; metal ion binding; p53 binding; peroxisome proliferator activated receptor binding; protein binding; sequence-specific DNA binding transcription factor activity; signal transducer activity; transcription coactivator activity; contributes_to transcription coactivator activity; transcription coactivator activity; transcription coactivator activity; transcription factor binding; transferase activity; zinc ion binding;