Recombinant Human CREBBP

Cat. No. CREBBP-28400TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1319-1710 of Human CBP, with an N-terminal enzyme tag, MW ~71kDa.
Species	Human
Source	E.coli
ProteinLength	1319-1710 a.a.
Description	This gene is ubiquitously expressed and is involved in the transcriptional coactivation of many different transcription factors. First isolated as a nuclear protein that binds to cAMP-response element binding protein (CREB), this gene is now known to play critical roles in embryonic development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. The protein encoded by this gene has intrinsic histone acetyltransferase activity and also acts as a scaffold to stabilize additional protein interactions with the transcription complex. This protein acetylates both histone and non-histone proteins. This protein shares regions of very high sequence similarity with protein p300 in its bromodomain, cysteine-histidine-rich regions, and histone acetyltransferase domain. Mutations in this gene cause Rubinstein-Taybi syndrome (RTS). Chromosomal translocations involving this gene have been associated with acute myeloid leukemia. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	Liquid

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Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Contains 1 bromo domain.Contains 1 KIX domain.Contains 2 TAZ-type zinc fingers.Contains 1 ZZ-type zinc finger.

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;
Gene ID	1387
mRNA Refseq	NM_001079846
Protein Refseq	NP_001073315
MIM	600140
Uniprot ID	Q92793
Chromosome Location	16p13.3
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved

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	biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Angiogenesis, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem;
Function	MyoD binding; SMAD binding; acetyltransferase activity; histone acetyltransferase activity; metal ion binding;

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