

Recombinant Human CREB Binding Protein, GST-tagged

Cat. No. CREBBP-1581H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CREBBP (518-1207; contains the catalytic domain) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	518-1207 a.a.
Description	CREBBP 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. 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. CREBBP plays a main role in embryonic development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. CREBBP also plays a critical role in the transmission of inductive signals from cell surface receptors to the transcriptional apparatus.
Applications	Western Blot
Molecular Weight	140 kDa
Expression System	Sf9 insect cells using baculovirus

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Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Purity	> 90 %
Concentration	0.1 ug/ul
Sequences	518-1207
Storage	Store product at -70°C. 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.
Pathways	Adherens junction; Cell cycle; Huntington's disease; Jak-STAT signaling pathway; Long-term potentiation; Notch signaling pathway; Pathways in cancer; Prostate cancer; Renal cell carcinoma; Melanogenesis; TGF-beta signaling pathway; Wnt signaling pathway; Gene Expression; Metabolism of lipids and lipoproteins

GENE INFORMATION

Gene Name	CREBBP CREB binding protein [Homo sapiens]
Official Symbol	CREBBP
Synonyms	CREBBP; CREB binding protein; CBP; RSTS; KAT3A; Rubinstein-Taybi syndrome; RTS; CREB-binding protein; OTTHUMP00000159801; NP_001073315.1; EC 2.3.1.48; NP_004371.2
Gene ID	1387
mRNA Refseq	NM_004380

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Protein Refseq	NP_004371
MIM	600140
UniProt ID	Q92793
Chromosome Location	16p13.3
Function	MyoD binding; SMAD binding; acetyltransferase activity; histone acetyltransferase activity; metal ion binding; p53 binding; peroxisome proliferator activated receptor binding; signal transducer activity; transcription coactivator activity; transcription coactivator activity; transcription factor activity; transferase activity; zinc ion binding
PDBrendering based on 1f81.	