

## Recombinant Human CREB Binding Protein, GST-tagged

Cat. No. CREBBP-1442H Lot. No. (See product label)

### SPECIFICATION

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview      | Recombinant human CBP (1319-1710) was expressed in <i>E. coli</i> cells using a N-terminal GST tag. MW = 71kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Species               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Source                | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Protein Length        | 1319-1710 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Description           | CBP or CREB-binding protein is a nuclear transcriptional coactivator protein that binds specifically to the PKA-phosphorylated form of the CREB protein. Microinjection of an anti-CBP antiserum into fibroblasts leads to inhibition of transcription from a cAMP promoter. CBP can also cooperate with upstream activators, such as JUN. When JUN is phosphorylated at the transcriptionally stimulatory sites ser73 and ser63, it binds CBP with comparable affinity to CREB. Insulin signaling may directly regulate many cAMP signaling pathways at the transcriptional level by controlling CBP recruitment. Mutant CBP can be aberrantly recruited to CREB protein, resulting in inappropriate activation of gluconeogenesis and glucose intolerance. |
| Sequence              | 1319-1710.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Applications          | Western Blot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage And Stability | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

performance, avoid repeated handling and multiple freeze/thaw cycles.

## GENE INFORMATION

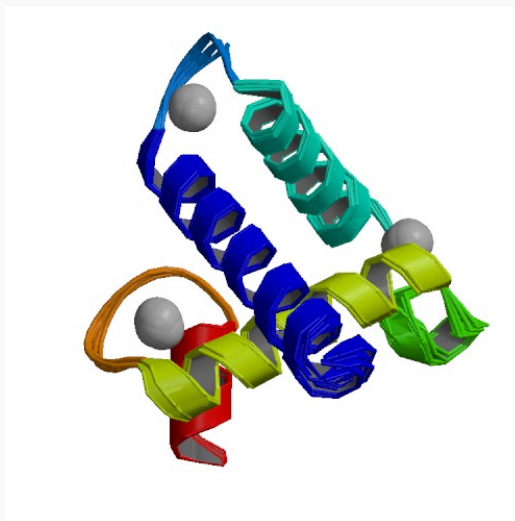
|                            |                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CREBBP CREB binding protein [ Homo sapiens ]                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>            | CREBBP; CREB binding protein; CBP; RSTS; KAT3A; Rubinstein-Taybi syndrome; RTS; CREB-binding protein                                                                                                                                                                                                                                                      |
| <b>Gene ID</b>             | 1387                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>         | NM_001079846                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>      | NP_001073315                                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>                 | 600140                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | Q92793                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 16p13.3                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | 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                                     |
| <b>Function</b>            | 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 |

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on 1f81.



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