

Recombinant Rat cAMP Responsive Element Binding Protein 1, GST-tagged

Cat. No. Creb1-1443R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat CREB1 (1-280) was expressed in <i>E. coli</i> cells using a N-terminal GST tag. MW = 59 kDa.
Species	Rat
Source	E.coli
Protein Length	1-280 a.a.
Description	CREB1 is a member of the cAMP responsive element binding protein family of transcription factors that are critical mediators of gene expression in response to extracellular signals and are essential regulators of adaptive behavior and long-term memory formation. Activation of CREB1 by protein kinase A-mediated phosphorylation has been implicated in the survival of mammalian cells. Mice lacking CREB in the central nervous system during development show extensive apoptosis of postmitotic neurons. CREB binds as homo- and heterodimers to promoters containing CRE and activator protein 1 (AP-1) sites to alter target-gene expression).
Sequence	1-280.
Applications	Kinase Assay, 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

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

GENE INFORMATION

Gene Name	Creb1 cAMP responsive element binding protein 1 [Rattus norvegicus]
Synonyms	Creb1; cAMP responsive element binding protein 1; Creb; Y protein; cAMP response element binding protein 1
Gene ID	81646
mRNA Refseq	NM_031017
Protein Refseq	NP_112279
UniProt ID	P15337
Chromosome Location	9q32
Pathway	Antigen processing and presentation; Huntington's disease; Melanogenesis; Prostate cancer
Function	DNA binding; RNA polymerase II transcription factor activity, enhancer binding; double-stranded DNA binding IDA PubMed protein binding; sequence-specific DNA binding; specific RNA polymerase II transcription factor activity; transcription factor activity

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PDB rendering based
on 1dh3.

