Recombinant Human CREB1, GST-tagged

Cat. No. CREB1-162H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CREB Binding Protein bromodomain (1081-1197 aa) fused to a GST tag at the N-terminus
Species	Human
Source	E.coli
ProteinLength	1081-1197 a.a.
Description	The acetylation of histone lysine residues plays a crucial role in the epigenetic regulation of gene transcription. A bromodomain is a protein domain that recognizes acetylated lysine residues such as those on the N-terminal tails of histones. This recognition is often a prerequisite for protein-histone association and chromatin remodeling. These domains function in the linking of protein complexes to acetylated nucleosomes, thereby controlling chromatin structure and gene expression. Thus, bromodomains serve as “readers” of histone acetylation marks regulating the transcription of target promoters. The cAMP response element-binding protein (CREB) binding protein (CREBBP) bromodomain has been shown to modulate the stability and function of the tumor suppressor protein p53. CREBBP bromodomain recognizes the acetylated lysine residue 382 on p53. This product contains the bromodomain region of CREBBP.
Form	Liquid. 50 mM Tris, pH 7.5, containing 500 mM sodium chloride, 5 mM β-mercaptoethanol and 5% glycerol.

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Molecular Mass	40.8 kDa (1081-1197 aa + NT GST Tag)
Purity	≥95%
Storage	Store at -80°C. Avoid repeated freeze and thaw cycles. Stable for 1 year.

GENE INFORMATION

Gene Name	CREB1 cAMP responsive element binding protein 1 [Homo sapiens]
Official Symbol	CREB1
Synonyms	CREB1; cAMP responsive element binding protein 1; cyclic AMP-responsive element-binding protein 1; CREB-1; transactivator protein; active transcription factor CREB; cAMP-response element-binding protein-1; cAMP-responsive element-binding protein 1; CREB; MGC9284;
Gene ID	1385
mRNA Refseq	NM_004379
Protein Refseq	NP_004370
MIM	123810
UniProt ID	P16220
Chromosome Location	2q34
Pathway	AKT phosphorylates targets in the nucleus, organism-specific biosystem; ATF-2 transcription factor network, organism-specific biosystem; Activated TLR4 signalling,

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	organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem;
Function	RNA polymerase II activating transcription factor binding; RNA polymerase II distal enhancer sequence-specific DNA binding; RNA polymerase II transcription factor binding transcription factor activity involved in positive regulation of transcription; cAMP response element binding; double-stranded DNA binding; protein binding; protein dimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity; transcription cofactor activity; transcription factor binding;

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