

Recombinant Human CREB1 293 Cell Lysate

Cat. No. CREB1-7289HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cAMP responsive element binding protein 1 (CREB1), transcript variant A is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding

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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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