

Datasheet for 012-001-R73S**CREB1 protein-GST fusion****Overview**

Description:	CREB1 recombinant protein-GST fusion protein - 012-001-R73S
Item No.:	012-001-R73S
Size:	20 µg
Origin:	Rat
Expressed in:	E. coli

Product Details

Background:	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 (1). 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 (2). CREB binds as homo- and heterodimers to promoters containing CRE and activator protein 1 (AP-1) sites to alter target-gene expression). CREB1 Protein is ideal for investigators involved in Signaling Proteins, Transcription Proteins, Apoptosis/Autophagy, Cardiovascular Disease, ERK/MAPK Pathway, Inflammation, Invasion/Metastasis, Metabolic Disorder, Neurobiology, NfκB Pathway, and PKA/PKC Pathway research.
Synonyms:	cAMP Responsive Element Binding Protein 1, creb, Cyclic AMP-responsive element-binding protein 1, CREB-1, cAMP-responsive element-binding protein 1
Species of Origin:	Rat
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	Creb1
Purity/Specificity:	Recombinant rat CREB1 (1-280) was expressed in E.coli cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >70% by densitometry.
Relevant Links:	• NCBI - NM_031017

Application Details

Application Note:	CREB1 Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. CREB1 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~ 59kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µl by UV absorbance at 280 nm
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

