Datasheet for ABIN6699573

CREB1 Protein (GST tag)

Go to Product page

Overview

Quantity:	20 µg
Target:	CREB1
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CREB1 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	CREB1 recombinant protein-GST fusion protein
Purification:	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.
Purity:	>70%

Target Details

Target:	CREB1
Alternative Name:	Creb1 (CREB1 Products)
Background:	Synonyms: cAMP Responsive Element Binding Protein 1, creb, Cyclic AMP-responsive element-binding protein 1, CREB-1, cAMP-responsive element-binding protein 1 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

Target Details

	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, NfkB Pathway, and PKA/PKC Pathway research.
NCBI Accession:	NM_031017
Pathways:	TLR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone Synthesis, Activation of Innate immune Response, Myometrial Relaxation and Contraction, Regulation of Cell Size, Toll-Like Receptors Cascades, G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma, Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Other: Kinase Assay-User Optimized Application_Note: CREB1 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~ 59 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.2 µg/µL
Buffer:	CREB1 Protein is stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Storage:	-80 °C
Storage Comment:	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

Handling

	repeated handling and multiple freeze/thaw cycles.
Expiry Date:	12 months