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Datasheet for 009-001-T04S

PRKAR1B protein-HIS Epitope

Overview

Description:	PRKAR1B recombinant protein-HIS Epitope - 009-001-T04S
Item No.:	009-001-T04S
Size:	20 µg
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	PRKAR1B is the type I-beta regulatory subunit of cyclic AMP-dependent protein kinase A (PKA) which is an essential enzyme in the cAMP signaling pathway. PKA holoenzyme is composed of 2 regulatory and 2 catalytic subunits and dissociates from the regulatory subunits upon binding of cAMP. PKA controls many biochemical events in the cell including regulation of metabolism, ion transport, and gene transcription. PKA undergoes a dramatic conformational change upon complex formation with the catalytic subunit (1). PRKAR1B subunits can dimerize through an N-terminal motif and this dimerization is necessary for binding to PKA anchoring proteins (AKAPs) and targeting of PKA to its site of action. PRKAR1B Protein is ideal for investigators involved in Signaling Proteins, Cellular Proteins, Apoptosis/Autophagy, Cardiovascular Disease, ERK/MAPK Pathway, Inflammation, Invasion/Metastasis, Metabolic Disorder, Neurobiology, NfkB Pathway, and PKA/PKC Pathway research.
Synonyms:	PRKAR1, cAMP-dependent protein kinase type I-beta regulatory subunit
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	PRKAR1B
Purity/Specificity:	Recombinant full-length human PRKAR1B was expressed in Sf9 insect cells using a C-Terminal his epitope. The purity was determined to be >90% by densitometry.
Relevant Links:	• NCBI - NM_002735

Application Details

Application Note:	PRKAR1B Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. PRKAR1B Protein is suitable for use in Western Blot. Expect a band approximately ~52kDa 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
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.

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