

Datasheet for 009-001-T03S**PRKAR1A protein-HIS Epitope****Overview**

Description:	PRKAR1A recombinant protein-HIS Epitope - 009-001-T03S
Item No.:	009-001-T03S
Size:	20 µg
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	PRKAR1A or the cAMP-dependent protein kinase regulatory subunit type I alpha, is part of the type 1 PKA holoenzyme. PRKAR1A is found to be a tissue-specific extinguisher that down-regulates the expression of seven liver genes in hepatoma x fibroblast hybrids (1). Mutations in PRKAR1A gene cause Carney complex (CNC) and PRKAR1A can fuse to the RET protooncogene by gene rearrangement and form the thyroid tumor-specific chimeric oncogene known as PTC2 (2). A nonconventional nuclear localization sequence (NLS) has been found for this protein which suggests a role in DNA replication via the protein serving as a nuclear transport protein for the second subunit of the Replication Factor C (RFC40). PRKAR1A Protein is ideal for investigators involved in Signaling Proteins, Cellular Proteins, Apoptosis/Autophagy, Cardiovascular Disease, ERK/MAPK Pathway, Inflammation, Invasion/Metastasis, Metabolic Disorder, Neurobiology, NfκB Pathway, and PKA/PKC Pathway research.
Synonyms:	CAR, CNC, CNC1, DKFZp779L0468, MGC17251, PKR1, PPNAD1, PRKAR1, TSE1, cAMP-dependent protein kinase type I-alpha regulatory subunit
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	PRKAR1A
Purity/Specificity:	Recombinant full-length human PRKAR1A Protein was expressed in Sf9 insect cells using a C-Terminal his epitope. The purity was determined to be >85% by densitometry.
Relevant Links:	• NCBI - NM_002734

Application Details

Application Note:	PRKAR1A Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. PRKAR1A Protein is suitable for use in Western Blot. Expect a band approximately ~51kDa 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.

Disclaimer

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