Datasheet for ABIN6700425

# PRKAR1A Protein (His tag)

Go to Product page

## Overview

| | |
|---|---|
| Quantity: | 20 µg |
| Target: | PRKAR1A |
| Origin: | Human |
| Source: | Insect cells (Sf9) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PRKAR1A protein is labelled with His tag. |
| Application: | Western Blotting (WB) |

## Product Details

| | |
|---|---|
| Purpose: | PRKAR1A recombinant protein-HIS Epitope |
| Purification: | 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. |
| Purity: | >85% |

## Target Details

| | |
|---|---|
| Target: | PRKAR1A |
| Alternative Name: | PRKAR1A (PRKAR1A Products) |
| Background: | Synonyms: CAR, CNC, CNC1, DKFZp779L0468, MGC17251, PKR1, PPNAD1, PRKAR1, TSE1, cAMP-dependent protein kinase type I-alpha regulatory subunit<br>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 |

## Target Details

| | |
|---|---|
| | 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, NfkB Pathway, and PKA/PKC Pathway research. |
| NCBI Accession: | NM_002734 |
| Pathways: | Hedgehog Signaling, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Myometrial Relaxation and Contraction, G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma |

## Application Details

| | |
|---|---|
| Application Notes: | Western_Blot_Dilution: User Optimized<br>Application_Note: PRKAR1A Protein is suitable for use in Western Blot. Expect a band approximately ~51 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: | PRKAR1A Protein is stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 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 repeated handling and multiple freeze/thaw cycles. |
| Expiry Date: | 12 months |