

Datasheet for ABIN6700427 **PRKAR1B Protein (His tag)**



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Overview

Quantity:	20 µg
Target:	PRKAR1B
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRKAR1B protein is labelled with His tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	PRKAR1B recombinant protein-HIS Epitope
Purification:	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.
Purity:	>90%

Target Details

Target:	PRKAR1B
Alternative Name:	PRKAR1B (PRKAR1B Products)
Background:	Synonyms: PRKAR1, cAMP-dependent protein kinase type I-beta regulatory subunit 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

Target Details

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, NfκB Pathway, and PKA/PKC Pathway research.

NCBI Accession: [NM_002735](#)

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
Application_Note: PRKAR1B Protein is suitable for use in Western Blot. Expect a band approximately ~52 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: PRKAR1B 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