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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

PRKAR1A (Human) Recombinant Protein (P01)

Catalog Number: H00005573-P01

Regulation Status: For research use only (RUO)

Product Description: Human PRKAR1A full-length ORF (NP_002725.1, 1 a.a. - 381 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MESGSTAASEEARSLRECELYVQKHNIQALLKDSIVQL
CTARPERPMAFLREYFERLEKKEEAKQIQNLQKAGTRT
DSREDEISPPPPNPVVVKGRRRRGAIKSAEVYTEEDAAS
YVRKVIKDYKTMAALAKAIEKNVLFSLDDNERSDIFD
AMFSVSFIAGETVIQQGDEGDNFYVIDQGETDVYVNN
EWATSVGEGGSFGELALIYGTPRAATVKAKTNVKLWG
IDRDSYRRILMGSTLRKRKMYEEFLSKVSILESLDKWE
RLTVADALEPVQFEDGQKIVVQGEPEGDEFFIILEGSAA
VLQRRSENEEFVEVGRLLGPSDYFGEIALLMNRPRRAAT
VVARGPLKCVKLDPRPRFERVLGPCSDILKRNIQQYNSF
VSLSV

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 69.4

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 5573

Gene Symbol: PRKAR1A

Gene Alias: CAR, CNC, CNC1, DKFZp779L0468, MGC17251, PKR1, PPNAD1, PRKAR1, TSE1

Gene Summary: cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. This gene encodes one of the regulatory subunits. This protein was found to be a tissue-specific extinguisher that down-regulates the expression of seven liver genes in hepatoma x fibroblast hybrids. Mutations in this gene cause Carney complex (CNC). This gene can fuse to the RET protooncogene by gene rearrangement and form the thyroid tumor-specific chimeric oncogene known as PTC2. 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). Three alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq]