

Product datasheet for **TP320376**

PKA R2 (PRKAR2A) (NM_004157) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein kinase, cAMP-dependent, regulatory, type II, alpha (PRKAR2A), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC220376 representing NM_004157 Red =Cloning site Green =Tags(s)

MSHIQIPPGLTELLQGYTVEVLRQQPPDLVEFAVEYFTRLREARAPASVLPAAATPRQSLGHPPPEPGPDR
VADAKGDSESEEDLEVPVPSRFNRRVSVCAETYNPDEEEEDTDPRIHPKTDEQRCRLQEACKDILLF
KNLDQEQLSQVLDAMFERIVKADEHVIDQGDDGDNFYVIERGTYDILVTKDNQTRSVGQYDNRGSFGELA
LMYNTPRAATIVATSEGLWGLDRVTFRRRIIVKNNAKKRKMFEFIESVPLLSLEVSRMKIVDVIGEK
IYKDGRIITQGEKADSFYIIESGEVSILIRSRTKSNKDGGNQEVEIARCHKGQYFGELALVTNKPRAAS
AYAVGDVKCLVMDVQAFERLLGPCMDIMKRNISHYEEQLVKMFGSSVDLGNLGQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	45.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004148



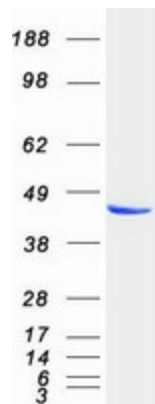
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Locus ID:	5576
UniProt ID:	P13861 , A0A024R2W3
RefSeq Size:	2381
Cytogenetics:	3p21.31
RefSeq ORF:	1212
Synonyms:	PKR2; PRKAR2

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. The protein encoded by this gene is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase. This subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER). [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome
Protein Pathways: Apoptosis, Insulin signaling pathway

Product images:



Coomassie blue staining of purified PRKAR2A protein (Cat# TP320376). The protein was produced from HEK293T cells transfected with PRKAR2A cDNA clone (Cat# [RC220376]) using MegaTran 2.0 (Cat# [TT210002]).