PKIB cDNA Clone – Camp-Dependent Protein Kinase Inhibitor Beta Isoform 1

PRODUCT OVERVIEW

Product Name	PKIB, cDNA Clone
Full Product Name	PKIB
Product Gene Name	PKIB cdna clone
Product Synonym Names	PRKACN2
Sequence	Nucleotide Sequence: ATGAGGACAG ATTCATCAAA AATGACTGAC GTGGAGTCTG GGGTCGCCAA TTTTGCATCT TCAGCAAGGG CAGGCCGCCG GAATGCCTTA CCAGACATCC AGAGTTCAGC TGCCACAGAC GGAACCTCAG ATTTGCCCCT CAAACTGGAG GCTCTCTCCG TGAAGGAAGA TGCAAAAGAG AAAGATGAAA AAACAACACA AGACCAATTG GAAAAGCCTC AAAATGAAGA AAAATGA Trans lation Sequence: MRTDSSKMTD VESGVANFAS SARAGRRNAL PDIQSSAATD GTSDLPLKLE ALSVKEDAKE KDEKTTQDQL EKPQNEEK
Form/Format	Lyophilized
Preparation and Storage	Store the plasmid at -20 degree C.
OMIM	606914
3D Structure	ModBase 3D Structure for Q9C010
Species	Human
Chromosome Location	6q22.31
OMIM Reference Number	606914
cDNA Size	237bp
Vector Description	This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.
Vector	(puc19-derived cloning vector)
Preparation Before Usage	1. Centrifuge at 7000rpm for 1 minute. 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.
Product Categories/Family for PKIB cdna clone	Signal Transduction
Related Product Information for PKIB cdna clone	PKIB, also known as cAMP-dependent protein kinase inhibitor beta, is a member of the cAMP-dependent protein kinase inhibitor family. This protein may interact with the catalytic subunit of cAMP-dependent protein kinase and act as a competitive inhibitor. At least three alternatively spliced transcript variants encoding the same protein have been reported.
Other Notes	Small volumes of PKIB cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PKIB purchase	MBS200606 is a cDNA clone targeting PKIB.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PKIB. It may not necessarily be applicable to this product.

NCBI GI #	32483392
NCBI GeneID	5570
NCBI Accession #	NP_861460.1
UniProt Primary Accession #	Q9C010
UniProt Related Accession #	Q9C010
GenBank Nucleotide #	NM_181795.2
NCBI Official Full Name	cAMP-dependent protein kinase inhibitor beta isoform 1
NCBI Official Synonym Full Names	cAMP-dependent protein kinase inhibitor beta
NCBI Official Symbol	PKIB
NCBI Official Synonym Symbols	PRKACN2
UniProt Protein Name	cAMP-dependent protein kinase inhibitor beta
Protein Family	cAMP-dependent protein kinase
UniProt Gene Name	PKIB
UniProt Synonym Gene Names	PRKACN2; PKI-beta
UniProt Entry Name	IPKB_HUMAN
NCBI Protein Information	cAMP-dependent protein kinase inhibitor beta
NCBI Summary for PKIB	This gene encodes a member of the cAMP-dependent protein kinase inhibitor family. The encoded protein may play a role in the protein kinase A (PKA) pathway by interacting with the catalytic subunit of PKA, and overexpression of this gene may play a role in prostate cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]
UniProt Comments for PKIB	PKIB: Extremely potent competitive inhibitor of cAMP-dependent protein kinase activity, this protein interacts with the catalytic subunit of the enzyme after the cAMP-induced dissociation of its regulatory chains. Belongs to the PKI family. Protein type: Protein kinase, regulatory subunit; Inhibitor Chromosomal Location of Human Ortholog: 6q22.31 Cellular Component: cytoplasm; nucleus Molecular Function: cAMP-dependent protein kinase inhibitor activity
Research Articles on PKIB	**1.** results indicate that PKIB promotes cell proliferation and tumorigenesis by activating the PI3K/Akt pathway in non-small cell lung cancer (NSCLC), implying that this is an important underlying mechanism that affects the progression of NSCLC
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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