

Recombinant Human PIP4K2B, His-tagged

Cat. No. PIP4K2B-7242H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PIP4K2B protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques
Species	Human
Source	E.coli
description	PIP4K2B catalyzes the phosphorylation of phosphatidylinositol-4-phosphate on the fifth hydroxyl of the myo-inositol ring to form phosphatidylinositol-4,5-bisphosphate. It is a member of the phosphatidylinositol-4-phosphate 5-kinase family. The amino acid sequence of PIP4K2B does not show similarity to other kinases, but the protein does exhibit kinase activity. Additionally, PIP4K2B interacts with p55 TNF receptor.
source	E. coli
species	Human
tag	His
form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
molecular mass	49.8 kDa (439aa)
aa sequence	MGSSHHHHHH SSGLVPRGSH MGSMSSNCTS TTAVAVAPLS ASKTKTKKKH

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FVCQKVKLFR ASEPILSVLM WGVNHTINEL SNVPVPVMLMPDDFKAYSKI
 KVDNHLFNKE NLPSRFKFKE YCPMVFRNLR ERFGIDDQDY QNSVTRSAPI
 NSDSQGRCGT RFLTTYDRRF VIKTVSSEDV AEMHNILKKY HQFIVECHGN
 TLLPQFLGMY RLTVDGVETY MVVTRNVFSH RLTVHRKYDL KGSTVAREAS
 DKEKAKDLPT FKDNDFLNEGQKLHVGEESK KNFLEKLKRD VEFLAQLKIM
 DYSLLVGIHD VDRAEQEEME VEERADEEC ENDGVGGNLL CSYGTTPDSP
 GNLLSFPRFF GPGEFDPSVD VYAMKSHESH PKKEVYFMAI IDILTPYDTK
 KKAHAHAKTV KHGAGAEIST VNPEQYSKRF NEFMSNILT

purity >90% by SDS - PAGE

applications SDS-PAGE

storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

concentration 0.5 mg/ml

GENE INFORMATION

gene name [PIP4K2B phosphatidylinositol-5-phosphate 4-kinase, type II, beta \[Homo sapiens \]](#)

official symbol PIP4K2B

synonyms PIP4K2B; phosphatidylinositol-5-phosphate 4-kinase, type II, beta; phosphatidylinositol 4 phosphate 5 kinase, type II, beta , PIP5K2B; phosphatidylinositol-5-phosphate 4-kinase type-2 beta; PIP5KIIB; PIP5KIIBeta; PIP4KII-beta; PTDINS(4)P-5-kinase; PI(5)P 4-kinase type II beta; diphosphoinositide kinase 2-beta; ptdIns(5)P-4-kinase isoform 2-beta; 1-phosphatidylinositol-4-phosphate kinase; 1-phosphatidylinositol-5-phosphate 4-kinase 2-beta; phosphatidylinositol-4-phosphate 5-kinase, type II, beta; PI5P4KB; PIP5K2B;

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Gene ID	8396
mrna refseq	NM_003559
protein refseq	NP_003550
mim	603261
uniprot id	P78356
chromosome location	17q21.2
pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, organism-specific biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Phosphatidylinositol signaling system, organism-specific biosystem; Phosphatidylinositol signaling system, conserved biosystem;
function	1-phosphatidylinositol-4-phosphate 5-kinase activity; 1-phosphatidylinositol-5-phosphate 4-kinase activity; ATP binding; nucleotide binding; receptor signaling protein activity; transferase activity;