

Recombinant Human PIP4K2B

Cat. No. PIP4K2B-188H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	Insect Cells
Description	<p>The protein catalyzes the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-4,5- bisphosphate. The gene is a member of the phosphatidylinositol-4- phosphate 5-kinase family. The encoded protein sequence does not show similarity to other kinases, but the protein does exhibit kinase activity. Additionally, the encoded protein interacts with p53 TNF receptor. Two transcript variants encoding different isoforms have been found for this gene. Pip5k2 beta, is amplified in a subset of breast cancer cell lines and primary breast cancer samples that carry HER-2/Neu amplification. It has been implicated that Pip 4k2beta has a role in the development and/or progression of breast cancer. The PIP5 Kβ was expressed in a Baculovirus system and purified by affinity and FPLC chromatography. MW = 46 kDa.</p>
Form	Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 20% glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA.
Purity	> 95% by SDS-PAGE.
Application	1 μg of PIP5K2β is sufficient to phosphorylate 1 μg of heat-inactivated nuclear or cytoplasmic extract.
Usage	For in vitro use only.

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Storage Quality guaranteed for 12 months store at -80°C. Avoid freeze / thaw cycles.

GENE INFORMATION

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

Synonyms PIP4K2B; phosphatidylinositol-5-phosphate 4-kinase, type II, beta; PI5P4KB; PIP5K2B; PIP5KIIB; PIP5KIIBeta; 1-phosphatidylinositol-5-phosphate 4-kinase B; PTDINS(4)P-5-kinase diphosphoinositide kinase; 1-phosphatidylinositol-4-phosphate kinase; phosphatidylinositol-4-phosphate 5-kinase, type II, beta; EC 2.7.1.149; Phosphatidylinositol-5-phosphate 4-kinase type-2 beta; PIP4KII-beta; Diphosphoinositide kinase 2-beta; PIP4KII-beta

Gene ID [8396](#)

mRNA Refseq [NM_003559](#)

Protein Refseq [NP_003550](#)

MIM [603261](#)

UniProt ID [P78356](#)

Chromosome Location 17q21.2

Pathway Endocytosis; Fc gamma R-mediated phagocytosis; Inositol phosphate metabolism; Metabolic pathways; Phosphatidylinositol signaling system; Regulation of actin cytoskeleton

Function 1-phosphatidylinositol-4-phosphate 5-kinase activity; 1-phosphatidylinositol-5-

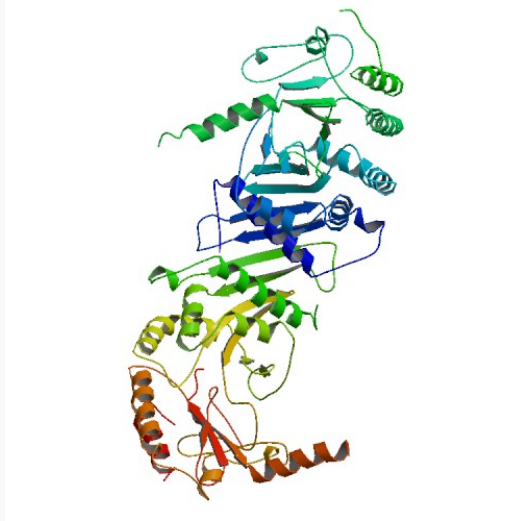
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phosphate 4-kinase activity; ATP binding; kinase activity; nucleotide binding; protein binding; receptor signaling protein activity; transferase activity

PDB rendering based
on 1bo1.



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