

Recombinant Human PIP4K2B

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

SPECIFICATION

Product Overview

Species Human

Source Insect Cells

Description

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.

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Usage	For in vitro use only.
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

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Function

1-phosphatidylinositol-4-phosphate 5-kinase activity; 1-phosphatidylinositol-5-phosphate 4-kinase activity; ATP binding; kinase activity; nucleotide binding; protein binding; receptor signaling protein activity; transferase activity

PDB rendering based on 1bo1.

