Recombinant Human PIP4K2B, GST-tagged

Cat. No. PIP4K2B-119H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PIP4K2B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	PIP4K2B (phosphatidylinositol-5-phosphate 4-kinase, type II, beta) catalyzes the pho sphorylation of phospha-tidylinositol-5-phosphate on the fourth hydroxyl of the myo-in ositol ring to form phosphatidylinositol-5,4-bisphosphate. PIP4K2B is a member of the phosphatidylinositol-5-phosphate 4-kinase family. PIP5K2B interacts specifically with t he juxtamembrane region of the p55 TNF receptor and that PIP5K2B activity is increa sed in mammalian cells by treatment with TNF-alpha. PIP5P4KB plays a role in deter mining insulin sensitivity and adiposity.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~73 kDa
Purity	>95% by densitometry
Applications	Western Blot
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller

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	quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 μg/μl

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;
Gene ID	8396
mRNA Refseq	NM_003559
Protein Refseq	NP_003550
MIM	603261
UniProt ID	P78356
Chromosome Location	17q21.2

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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;

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