Active Recombinant Human PIP4K2A, GST-tagged

Cat. No. PIP4K2A-1458H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PIP4K2A was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	PIP4K2A or phosphatidylinositol-5-phosphate 4-kinase, type II, alpha, is a member of the phosphatidylinositol-5-phosphate 4-kinase family that catalyzes the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to formphosphatidylinositol-4,5-bisphosphate. PIP4K2A plays as essential role in the phosphoinositide signal transduction cascades as the precursor to second messengers and is involved in the regulation of secretion, cell proliferation, differentiation, and motility. PIP4K2A may be one of the factors related to the regulation of the beta-globin gene expression and the different levels of Hb H in alpha-thalassemic patients.
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.
Bio-activity	2100 nmol/min/mg
Molecular Mass	~76 kDa

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Purity	>95%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1μg/μl

GENE INFORMATION

Gene Name	PIP4K2A phosphatidylinositol-5-phosphate 4-kinase, type II, alpha [Homo sapiens]
Official Symbol	PIP4K2A
Synonyms	PIP4K2A; phosphatidylinositol-5-phosphate 4-kinase, type II, alpha; phosphatidylinositol 4 phosphate 5 kinase, type II, alpha , PIP5K2A; phosphatidylinositol-5-phosphate 4-kinase type-2 alpha; PIP5KIIA; PIP5KIIalpha; PIP5KIII; PIP4KII-alpha; PI(5)P 4-kinase type II alpha; PtdIns(4)P-5-kinase B isoform; ptdIns(4)P-5-kinase C isoform; diphosphoinositide kinase 2-alpha; ptdIns(5)P-4-kinase isoform 2-alpha; 1-phosphatidylinositol-4-phosphate kinase; 1-phosphatidylinositol-4-phosphate-5-kinase; 1-phosphatidylinositol-5-phosphate 4-kinase 2-alpha; phosphatidylinositol-4-phosphate 5-kinase, type II, alpha; type II phosphatidylinositol-4-phosphate 5-kinase 53 K isoform; PIPK; PI5P4KA; PIP5K2A; FLJ13267; PIP5KII-alpha;
Gene ID	5305
mRNA Refseq	NM_005028
Protein Refseq	NP_005019

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MIM	603140
UniProt ID	P48426
Chromosome Location	10p12.2
Pathway	B Cell Receptor Signaling Pathway, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol-5-phosphate metabolism, organism-specific biosystem; G13 Signaling Pathway, organism-specific biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Phosphatidylinositol signaling system, organism-specific biosystem;
Function	1-phosphatidylinositol-4-phosphate 5-kinase activity; 1-phosphatidylinositol-5-phosphate 4-kinase activity; ATP binding; nucleotide binding; transferase activity;

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