Active Recombinant Human PIP5K1C, GST-tagged

Cat. No. PIP5K1C-1462H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PIP5K1C was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	PIP5K1C or phosphatidylinositol-4-phosphate 5-kinase 1 gamma phosphorylates phosphatidylinositol-4-phosphate to form phosphatidylinositol 4,5-bisphosphate. PIP5K1C is found at synapses and has been found to play roles in endocytosis and cell migration. PIP5K1C directly associates with β-catenin and increases β-catenin activity downstream of growth factor stimulation. PIP5K1C expression and kinase activity enhance β-catenin phosphorylation on residues that promote nuclear importation and transcriptional activity. PIP5K1C deficiency impairs neutrophil recruitment as a result of defect in adhesion. PIP5K1C regulated the adhesion through facilitating RhoA GTPase and integrin activation by chemoattractants.
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	220 nmol/min/mg
Molecular Mass	~120 kDa

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Purity	>80%
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	PIP5K1C phosphatidylinositol-4-phosphate 5-kinase, type I, gamma [Homo sapiens]
Official Symbol	PIP5K1C
Synonyms	PIP5K1C; phosphatidylinositol-4-phosphate 5-kinase, type I, gamma; phosphatidylinositol-4-phosphate 5-kinase type-1 gamma; KIAA0589; LCCS3; PIP5Kgamma; PIP5K1-gamma; type I PIP kinase; diphosphoinositide kinase; ptdIns(4)P-5-kinase 1 gamma; Human homolog of mouse phosphatidylinositol-4-phosphate 5-kinase I-gamma; PIPKIg_v4; PIP5K-GAMMA;
Gene ID	23396
mRNA Refseq	NM_001195733
Protein Refseq	NP_001182662
MIM	606102
UniProt ID	O60331

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Chromosome Location	19p13.3
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; Arf6 trafficking events, organism-specific biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, conserved biosystem;
Function	1-phosphatidylinositol-4-phosphate 5-kinase activity; ATP binding; nucleotide binding; transferase activity;

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