Recombinant Human PIKFYVE, GST-tagged

Cat. No. PIKFYVE-120H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PIP5K3 (1493-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1493-end a.a.
Description	PIP5K3 (also known as phosphatidylinositol-3-phosphate 5-kinase type III or PIPKIII) encodes an enzyme that phosphorylates the D-5 position in PtdIns and phosphatidyli nositol-3-phosphate (PtdIns3P) to make PtdIns5P and PtdIns(3,5)biphosphate. PIP5K 3 belongs to a large family of lipid kinases that alter the phosphorylation status of intra cellular phosphatidylinositol but also have protein kinase activity. PIP5K3 regulate cyt oskeletal functions, membrane trafficking, and receptor signaling by recruiting protein complexes to cell- and endosomal-membranes. The inhibition of PIP5K3 renders the l ate endosome/lysosome compartment refractory to fusion with autophagosomes and multivesicular bodies.
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	~ 93 kDa
Purity	>75% by densitometry

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Applications	Western Blot
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller 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	PIKFYVE phosphoinositide kinase, FYVE finger containing [Homo sapiens]
Official Symbol	PIKFYVE
Synonyms	PIKFYVE; phosphoinositide kinase, FYVE finger containing; phosphatidylinositol 3 phosphate/phosphatidylinositol 5 kinase, type III , PIP5K3; 1-phosphatidylinositol 3-phosphate 5-kinase; KIAA0981; MGC40423; p235; PIKfyve; PIP5K; PIPkin-III; type III PIP kinase; phosphatidylinositol 3-phosphate 5-kinase; 1-phosphatidylinositol-3-phosphate 5-kinase; phosphatidylinositol 3-phosphate 5-kinase type III; phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinase, type III; CFD; FAB1; PIP5K3; FLJ37746;
Gene ID	200576
mRNA Refseq	NM_001178000
Protein Refseq	NP_001171471
MIM	609414
UniProt ID	Q9Y2I7

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Chromosome Location	2q34
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Phagosome, organism-specific biosystem; Phagosome, conserved biosystem; Phosphatidylinositol signaling system, organism-specific biosystem;
Function	1-phosphatidylinositol-3-phosphate 5-kinase activity; 1-phosphatidylinositol-4-phosphate 5-kinase activity; ATP binding; metal ion binding; nucleotide binding; protein binding; transferase activity; zinc ion binding;

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