

Active Recombinant Human PI4KB protein, GST-tagged

Cat. No. PI4KB-162H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PI4KB fused with an N-terminal GST tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	PI4KB is a member of the phosphatidylinositol 4-kinase family (PI4K) and is the first committed step in the production of the second messenger inositol-1,4,5-trisphosphate (PIP3). PI4KB regulates the golgi disintegration/reorganization during mitosis possibly via the phosphorylation of phosphatidylinositol. PI4KB is a type III enzyme that is sensitive to wortmannin and is responsible for regulating the synthesis of agonist-sensitive pools of polyphosphoinositides. PI4KB is critical for glucose-induced insulin secretion due to its capacity to regulate the release of secretory granules. PI4KB inhibits the insulin-stimulated translocation of glucose transporter-4 in mouse adipocytes through its interaction with neuronal calcium sensor-1.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	4800 nmol/min/mg
Molecular Mass	~120 kDa
Purity	>90%

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Applications	Kinase Assay
Stability	1 year at -70 centigrade from the date of shipment
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	0.1µg/µl

GENE INFORMATION

Gene Name	PI4KB phosphatidylinositol 4-kinase, catalytic, beta [Homo sapiens]
Official Symbol	PI4KB
Synonyms	PI4KB; phosphatidylinositol 4-kinase, catalytic, beta; PIK4CB; phosphatidylinositol 4-kinase beta; PI4K BETA; pi4K92; PtdIns 4-kinase beta; type III phosphatidylinositol 4-kinase beta; phosphatidylinositol 4-kinase, wortmannin-sensitive; NPIK; PI4K92; PI4KBETA; PI4K-BETA; PI4KIIIBETA; FLJ30129; DKFZp686O1820;
Gene ID	5298
mRNA Refseq	NM_001198773
Protein Refseq	NP_001185702
MIM	602758
UniProt ID	Q9UBF8

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Chromosome Location	1q21
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Inositol phosphate metabolism, PI=>
Function	1-phosphatidylinositol 4-kinase activity; ATP binding; kinase activity; nucleotide binding;
	