

Active Recombinant Human PI4KB, GST-tagged

Cat. No. PI4KB-1077H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human PI4KB was co-expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full Length
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 (PIP ₃). 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	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	37 nmol/min/mg
Molecular Mass	~120 kDa

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Purity	>90%
Applications	Kinase Assay; Western Blot
Stability	1 yr at -70oC from date of shipment.
Storage	Store product at –70oC. 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 ug/ul
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

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UniProt ID	Q9UBF8
Chromosome Location	1q21
Pathway	3-phosphoinositide biosynthesis; D-myo-inositol (1,4,5)-trisphosphate biosynthesis; Inositol phosphate metabolism
Function	1-phosphatidylinositol 4-kinase activity; ATP binding; protein binding

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