

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 (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	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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