

Active Recombinant Human PI4K2B, GST-tagged

Cat. No. PI4K2B-1451H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human PI4K2B was co-expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	<p>PI4K2B is a member of the phosphatidylinositol 4-kinase family (PI4K) that phosphorylate phosphatidylinositol to generate phosphatidylinositol 4-phosphate which are immediate precursor of several important signaling and scaffolding molecules. PI4K2B is primarily a cytosolic PI4K that is recruited to membranes where it stimulates phosphatidylinositol 4,5-bisphosphate syntheses. PI4K2B uses phosphatidylinositol as their primary substrate and has no activity on phosphatidylinositol monophosphates. PI4K2B is a restricted minor histocompatibility antigen in patients that had been successfully treated with donor lymphocyte infusions for relapsed chronic myeloid leukemia after allogeneic stem cell transplantation.</p>
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	218 nmol/min/mg

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Molecular Mass	~84 kDa
Purity	>90%
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	0.1 µg/µl

GENE INFORMATION

Gene Name	PI4K2B phosphatidylinositol 4-kinase type 2 beta [Homo sapiens]
Official Symbol	PI4K2B
Synonyms	PI4K2B; phosphatidylinositol 4-kinase type 2 beta; phosphatidylinositol 4-kinase type 2-beta; FLJ11105; PI4KIIB; PIK42B; PI4KII-BETA; phosphatidylinositol 4-kinase type II-beta; phosphatidylinositol 4-kinase type-II beta;
Gene ID	55300
mRNA Refseq	NM_018323
Protein Refseq	NP_060793
MIM	612101
UniProt ID	Q8TCG2

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Chromosome Location	4p15.31
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; transferase activity;

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