Recombinant Human PI4K2B

Cat. No. PI4K2B-30363TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PI 4 Kinase type 2 beta with an N terminal proprietary tag; MWt 84 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	481 amino acids
Description	Phosphatidylinositol 4-kinases (PI4Ks) phosphorylate phosphatidylinositol to generate phosphatidylinositol 4-phosphate (PIP), an immediate precursor of several important signaling and scaffolding molecules. PIP itself may also have direct functional and structural roles. PI4K2B is a primarily cytosolic PI4K that is recruited to membranes, where it stimulates phosphatidylinositol 4,5-bisphosphate synthesis (Wei et al.
Molecular Weight	84.000kDa inclusive of tags
Tissue specificity	Widely expressed.
Biological activity	The Specific activity of PI4K2B-30363TH was determined to be 218 nmol/min/mg.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the PI3/PI4-kinase family. Type II PI4K subfamily.Contains 1 PI3K/PI4K domain.

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;
Gene ID	55300
mRNA Refseq	NM_018323
Protein Refseq	NP_060793
MIM	612101
Uniprot ID	Q8TCG2
Chromosome Location	4p15.31
Pathway	3-phosphoinositide biosynthesis, conserved biosystem; D-myo-inositol (1,4,5)-

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	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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