

Recombinant Human PI4KA, GST-tagged

Cat. No. PI4KA-117H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PI4KA was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	PI4KA encodes a phosphatidylinositol (PI) 4-kinase which catalyzes the first committed step in the biosynthesis of phosphatidylinositol 4,5-bisphosphate. The mammalian PI 4-kinases have been classified into two types, II and III, based on their molecular mass, and modulation by detergent and adenosine. The protein encoded by PI4KA gene is a type III enzyme that is not inhibited by adenosine. PI4KA is highly expressed in placenta and brain. PI4KA is associated with the membranes of Golgi vesicles and vacuoles.
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.
Molecular Mass	~120 kDa
Purity	>70% by densitometry
Applications	Western Blot
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller

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quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 0.1 µg/µl

GENE INFORMATION

Gene Name PI4KA phosphatidylinositol 4-kinase, catalytic, alpha [Homo sapiens]

Official Symbol PI4KA

Synonyms PI4KA; phosphatidylinositol 4-kinase, catalytic, alpha; PIK4CA; phosphatidylinositol 4-kinase alpha; PI4K ALPHA; pi4K230; PI4-kinase alpha; ptdIns-4-kinase alpha; phosphatidylinositol 4-kinase 230; phosphatidylinositol 4-kinase, type III, alpha; PI4K-ALPHA; FLJ16556;

Gene ID 5297

mRNA Refseq NM_002650

Protein Refseq NP_002641

MIM 600286

UniProt ID P42356

Chromosome Location 22q11.21

Pathway 3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis,

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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; nucleotide binding; phosphatidylinositol 3-kinase activity; protein binding;

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