

## Recombinant Human PI4KA, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human PI4KA was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	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.
<b>Form</b>	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.
<b>Molecular Mass</b>	~120 kDa
<b>Purity</b>	>70% by densitometry
<b>Applications</b>	Western Blot
<b>Storage</b>	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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