

## Active Recombinant Human PI4K2A, GST-tagged

**Cat. No.** PI4K2A-1450H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human PI4K2A was co-expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full length
<b>Description</b>	PI4K2A or phosphatidylinositol 4-kinase type 2 alpha is involved in the formation of phosphatidylinositolpolyphosphates (PtdInsPs) which are centrally involved in many biologic processes ranging from cell growth and organization of the actin cytoskeleton to endo- and exocytosis. PI4K2A phosphorylates PtdIns at the D-4 position which is an essential step in the biosynthesis of PtdInsPs. PI4K2A is a novel regulator of tumor growth by its action on angiogenesis and HIF-1alpha regulation. PI4K2A generates PtdIns4P-rich domains within the Golgi which regulate targeting of clathrin adaptor AP-1 complexes. PI4K2A is also required for Wnt to regulate LRP6 phosphorylation.
<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>Bio-activity</b>	95 nmol/min/mg
<b>Molecular Mass</b>	~79 kDa

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<b>Purity</b>	>95%
<b>Applications</b>	Kinase Assay, Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 $\mu\text{g}/\mu\text{l}$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PI4K2A phosphatidylinositol 4-kinase type 2 alpha [ Homo sapiens ]
<b>Official Symbol</b>	PI4K2A
<b>Synonyms</b>	PI4K2A; phosphatidylinositol 4-kinase type 2 alpha; phosphatidylinositol 4-kinase type 2-alpha; DKFZP761G1923; PI4KII; PIK42A; phosphatidylinositol 4-kinase type II-alpha; phosphatidylinositol 4-kinase type II (PI4KII); RP11-548K23.6; DKFZp761G1923;
<b>Gene ID</b>	55361
<b>mRNA Refseq</b>	NM_018425
<b>Protein Refseq</b>	NP_060895
<b>MIM</b>	609763
<b>UniProt ID</b>	Q9BTU6
<b>Chromosome</b>	10q24

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**Location****Pathway**

3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; Canonical Wnt signaling pathway, organism-specific 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;

**Function**

1-phosphatidylinositol 4-kinase activity; ATP binding; kinase activity; magnesium ion binding; nucleotide binding; transferase activity;

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