Active Recombinant Human PI4K2A, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant full-length human PI4K2A was co-expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	PI4K2A or phosphatidylinositol 4-kinase type 2 alpha is involved in the formation of ph osphatidylinositolpolyphosphates (PtdInsPs) which are centrally involved in many biol ogic 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 gr owth by its action on angiogenesis and HIF-1alpha regulation. PI4K2A generates PtdI ns4P-rich domains within the Golgi which regulate targeting of clathrin adaptor AP-1 c omplexes. PI4K2A is also required for Wnt to regulate LRP6 phosphorylation.
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	95 nmol/min/mg
Molecular Mass	~79 kDa

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Purity	>95%
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	0.1μg/μl

GENE INFORMATION

Gene Name	PI4K2A phosphatidylinositol 4-kinase type 2 alpha [Homo sapiens]
Official Symbol	PI4K2A
Synonyms	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;
Gene ID	55361
mRNA Refseq	NM_018425
Protein Refseq	NP_060895
MIM	609763
UniProt ID	Q9BTU6
Chromosome	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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