Active Recombinant Human PIK3C2A, GST-tagged

Cat. No. PIK3C2A-1452H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PIK3C2A (299-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	299 aa-end
Description	PIK3C2A is belongs to the phosphoinositide 3-kinase (PI3K) family which play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. PIK3C2A can phosphorylate phosphatidylinositol and phosphatidylinositol-4-phosphate in vitro. PIK3C2A contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases that act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions.
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	22 nmol/min/mg
Molecular Mass	~155 kDa

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Purity	>70%
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	PIK3C2A phosphoinositide-3-kinase, class 2, alpha polypeptide [Homo sapiens]
Official Symbol	PIK3C2A
Synonyms	PIK3C2A; phosphoinositide-3-kinase, class 2, alpha polypeptide; phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit alpha; PI3K C2alpha; PI3K-C2alpha; PI3K-C2-alpha; ptdIns-3-kinase C2 subunit alpha; phosphoinositide 3-kinase-C2-alpha; C2-containing phosphatidylinositol kinase; CPK; PI3-K-C2A; MGC142218; PI3-K-C2(ALPHA); DKFZp686L193;
Gene ID	5286
mRNA Refseq	NM_002645
Protein Refseq	NP_002636
MIM	603601
UniProt ID	O00443

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Chromosome Location	11p15.5-p14
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; Clathrin derived vesicle budding, organism-specific biosystem; Golgi Associated Vesicle Biogenesis, organism-specific biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Insulin Signaling, organism-specific biosystem;
Function	1-phosphatidylinositol-3-kinase activity; 1-phosphatidylinositol-4-phosphate 3-kinase activity; ATP binding; binding; nucleotide binding; phosphatidylinositol 3-kinase activity; phosphatidylinositol binding; phosphotransferase activity, alcohol group as acceptor;

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