

Active Recombinant Human PIK3C2G, GST-tagged

Cat. No. PIK3C2G-1453H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PIK3C2G (468-1203) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	468-1203 aa
Description	PIK3C2G belongs to the phosphoinositide 3-kinase (PI3K) family which plays main roles in signaling pathways and involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. PIK3C2G 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 which mediate translocation of proteins to membranes, and may also mediate protein-protein interactions and the N-terminal region of PIK3C2G and the C-terminal C2 domain are required for enzymatic activity.
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	280 nmol/min/mg
Molecular Mass	~110 kDa

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Purity	>75%
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	0.1 µg/µl
GENE INFORMATION	
Gene Name	PIK3C2G phosphoinositide-3-kinase, class 2, gamma polypeptide [Homo sapiens]
Official Symbol	PIK3C2G
Synonyms	PIK3C2G; phosphoinositide-3-kinase, class 2, gamma polypeptide; phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit gamma; PI3K-C2-gamma; PTDINS-3-kinase C2 gamma; ptdIns-3-kinase C2 subunit gamma; phosphoinositide 3-kinase-C2-gamma; phosphatidylinositol 3-kinase C2 domain-containing gamma; phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing gamma polypeptide; PI3K-C2GAMMA; MGC163149;
Gene ID	5288
mRNA Refseq	NM_004570
Protein Refseq	NP_004561
MIM	609001
UniProt ID	O75747

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Chromosome Location	12p12
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Insulin Signaling, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Phosphatidylinositol signaling system, organism-specific biosystem;
Function	1-phosphatidylinositol-3-kinase activity; 1-phosphatidylinositol-4-phosphate 3-kinase activity; ATP binding; binding; nucleotide binding; phosphatidylinositol binding; phosphatidylinositol phosphate kinase activity;