

Recombinant Human PIK3C2B, GST-tagged

Cat. No. PIK3C2B-118H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PIK3C2B (850-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	850-end a.a.
Description	PIK3C2B or phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 beta b belongs to the phosphoinositide 3-kinase (PI3K) family. PIK3C2B plays a role in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. PIK3C2B is highly expressed in thymus and placenta and it may function in a calcium-independent manner. In cell signaling, PIK3C2B stabilizes nucleotide-free Ras and the interaction of Ras and PI3KC2 beta mutually inhibits one another 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.
Molecular Mass	~98 kDa
Purity	>70% by densitometry
Applications	Western Blot

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Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller 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	PIK3C2B phosphoinositide-3-kinase, class 2, beta polypeptide [Homo sapiens]
Official Symbol	PIK3C2B
Synonyms	PIK3C2B; phosphoinositide-3-kinase, class 2, beta polypeptide; phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit beta; C2 PI3K; PI3K C2beta; PI3K-C2beta; PI3K-C2-beta; PTDINS-3-kinase C2 beta; ptdIns-3-kinase C2 subunit beta; phosphoinositide 3-kinase-C2-beta; phosphatidylinositol 3-kinase C2 domain-containing beta polypeptide; C2-PI3K; DKFZp686G16234;
Gene ID	5287
mRNA Refseq	NM_002646
Protein Refseq	NP_002637
MIM	602838
UniProt ID	O00750
Chromosome Location	1q32

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Pathway

3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved 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; lipid kinase activity; nucleotide binding; phosphatidylinositol binding; phosphotransferase activity, alcohol group as acceptor; protein binding;

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