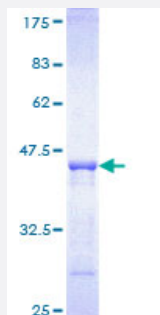


PIK3C2B (Human) Recombinant Protein (Q01)

Catalog # H00005287-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PIK3C2B partial ORF (NP_002637, 1 a.a. - 110 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSSTQDNGEHWKSLESVSGISRKELAMAEALQMEYDALSRHRHDKEENRAKQNADPSLISWDEP GVDFYSKPAGRRTDLKLLRGLSGSDPTLNYNLSLPQEGPPNHSTSQG
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (90); Rat (88)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PIK3C2B

Entrez GeneID [5287](#)

GeneBank Accession# [NM_002646](#)

Protein Accession# [NP_002637](#)

Gene Name PIK3C2B

Gene Alias C2-PI3K, DKFZp686G16234

Gene Description phosphoinositide-3-kinase, class 2, beta polypeptide

Omim ID [602838](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. The PI3-kinase activity of this protein is sensitive to low nanomolar levels of the inhibitor wortmanin. The C2 domain of this protein was shown to bind phospholipids but not Ca²⁺, which suggests that this enzyme may function in a calcium-independent manner. [provided by RefSeq]

Other Designations OTTHUMP00000034333|PI3K-C2beta|PTDINS-3-kinase C2 beta|phosphatidylinositol 3-kinase C2 domain-containing beta polypeptide

Pathway

- [Inositol phosphate metabolism](#)
- [Metabolic pathways](#)
- [Phosphatidylinositol signaling system](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
- [Prostatic Neoplasms](#)
- [Tobacco Use Disorder](#)