

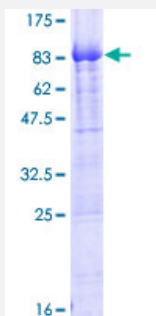
Full-Length

PIP5K3 (Human) Recombinant Protein (P02)

Catalog # H00200576-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PIP5K3 full-length ORF (NP_689884.1, 1 a.a. - 451 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MATDDKTSP TLDSANDLPRSPTSPSHLTHFKPLTPDQDEPPFKSAYSSFVNLFRFNKERAEGGQ
GEQQPLSGSWTSPQLPSRTQSVRSPTPYKKQLNEELQRRSSALGDLRACTYCRKIALSYAHSTD
SNSIGEDLNALSDSACSVSVLDPSEPRTPVGSRKASRNIFLEDDLAWQSLIHPDSSNTPLSTRLV
SVQEDAGKSPARNRSASITNLSLDRSGSPMVPSYETSVSPQANRTYVRTETTEDERKILLDSVQL
KDLWKKICHSSGMEFQDHRYLRLTHPNCIVGKELVNWLRNGHIATRAQAIAIGQAMVDGRWLD
CVSHHDQLFRDEYALYRPLQSTEFSETPSPDSVNSVEGHSEPSWFKDIKFDDSDTEQIAEEG
DDNLANSASPSKRTSVSSFQSTVSDSAASISLNVELDNVNFHIKKPSKYPHVPPHPADQKGRR

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

76.6

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 — PIP5K3

Entrez GeneID [200576](#)

GeneBank Accession# [NM_152671.2](#)

Protein Accession# [NP_689884.1](#)

Gene Name PIP5K3

Gene Alias CFD, FAB1, KIAA0981, MGC40423, PIKFYVE, PIP5K

Gene Description phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinase, type III

Omim ID [121850 609414](#)

Gene Ontology [Hyperlink](#)

Gene Summary PIP5K3 belongs to a large family of lipid kinases that alter the phosphorylation status of intracellular phosphatidylinositol. Signaling by phosphorylated species of phosphatidylinositol regulates diverse cellular processes, including membrane trafficking and cytoskeletal reorganization (Shisheva et al., 1999 [PubMed 9858586]).[supplied by OMIM]

Other Designations 1-phosphatidylinositol-4-phosphate 5-kinase|FYVE finger-containing phosphoinositide kinase|OTTHUMP00000163872|PtdIns(4)P-5-kinase|phosphatidylinositol-3-phosphate 5-kinase type III|phosphatidylinositol-4-phosphate 5-kinase, type III

Pathway

- [Endocytosis](#)

- [Fc gamma R-mediated phagocytosis](#)
- [Inositol phosphate metabolism](#)
- [Metabolic pathways](#)
- [Phosphatidylinositol signaling system](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Tobacco Use Disorder](#)