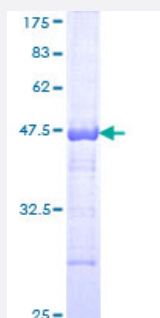


PIP5K3 (Human) Recombinant Protein (Q01)

Catalog # H00200576-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PIP5K3 partial ORF (NP_689884, 342 a.a. - 451 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	LQSTEFSETPSPDSDSVNSVEGHSEPSWFKDIKFDDSDTEQIAEEGDDNLANSASPSKRTSVSS FQSTVDSDSAASISLNVELDNVNFHIKKPSKYPHVPPHPADQKGRR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
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](#)

Protein Accession# [NP_689884](#)

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|OT THUMP00000163872|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](#)