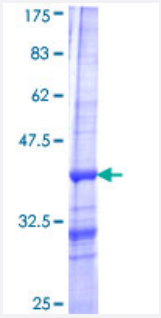
PIP4K2B (Human) Recombinant Protein (Q01)

Catalog # H00008396-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PIP4K2B partial ORF (NP_003550, 73 a.a. - 160 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	AYSKIKVDNHLFNKENLPSRFKFKEYCPMVFRNLRERFGIDDQDYQNSVTRSAPINSDSQGRCGT RFLTTYDRRFVIKTVSSEDVAEM
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.42
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 — PIP4K2B

Entrez GeneID	8396
GeneBank Accession#	NM_003559
Protein Accession#	NP_003550
Gene Name	PIP4K2B
Gene Alias	PI5P4KB, PIP5K2B, PIP5KIIB, PIP5KIIbeta
Gene Description	phosphatidylinositol-5-phosphate 4-kinase, type II, beta
Omim ID	603261
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene catalyzes the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-5,4-bisphosphate. This gene is a member of the phosphatidylinositol-5-phosphate 4-kinase family. The encoded protein sequence does not show similarity to other kinases, but the protein does exhibit kinase activity. Additionally, the encoded protein interacts with p55 TNF receptor. [provided by RefSeq
Other Designations	1-phosphatidylinositol-4-phosphate kinase|PTDINS(4)P-5-kinase|diphosphoinositide kinase|phosphatidylinositol-4-phosphate 5-kinase, type II, beta

Pathway

- Endocytosis
- Fc gamma R-mediated phagocytosis
- Inositol phosphate metabolism

- Metabolic pathways
- Phosphatidylinositol signaling system
- Regulation of actin cytoskeleton

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis