

## Recombinant Human PIP5K1B

Catalog No: #GP11221



Package Size: #GP11221-1 100ug

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## Description

Product Name	Recombinant Human PIP5K1B
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 25-312 amino acids of human phosphatidylinositol-4-phosphate 5-kinase, type I, beta
Target Name	phosphatidylinositol-4-phosphate 5-kinase, type I, beta
Other Names	MSS4; STM7
Accession No.	Swissprot:O14986Gene Accession:BC030587
Uniprot	O14986
GenelD	8395;
Storage	-20~-80°C, pH 7.6 PBS

## Background

Phosphatidylinositol-4-phosphate-5-kinase (PIPK) synthesizes phosphatidylinositol-4,5-bisphosphate, which regulates various processes including cell proliferation, survival, membrane trafficking, and cytoskeletal organization. The PIPK family is divided into type I, type II and type III. Each type of the PIPK family phosphorylate distinct substrates and they contain an activation loop, which determines their enzymatic specificity and subcellular targeting. The phosphatidylinositol-4-phosphate-5-kinase type I consists of three members, PIPK I $\alpha$ , I $\beta$ , and I $\gamma$ , which are characterized by phosphorylating PI4P on the 5-hydroxyl. PIPK I $\gamma$  (designated PIPK I in mouse) is expressed in brain tissue. PIPK I $\beta$ , designated PIPK I $\beta$  in mouse, is also called STM7. PIPK I $\alpha$  has two variants produced by alternative splicing which are expressed in lung, brain, and kidneys.

## References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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