

PIP5K2B Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8042A

Specification

PIP5K2B Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	P78356
Other Accession	O88377 , O80X14 , NP_003550
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	112-142

PIP5K2B Antibody (N-term) - Additional Information

Gene ID 8396

Other Names

Phosphatidylinositol 5-phosphate 4-kinase type-2 beta, 1-phosphatidylinositol 5-phosphate 4-kinase 2-beta, Diphosphoinositide kinase 2-beta, Phosphatidylinositol 5-phosphate 4-kinase type II beta, PI(5)P 4-kinase type II beta, PIP4KII-beta, PtdIns(5)P-4-kinase isoform 2-beta, PIP4K2B, PIP5K2B

Target/Specificity

This PIP5K2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 112-142 amino acids from the N-terminal region of human PIP5K2B.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PIP5K2B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PIP5K2B Antibody (N-term) - Protein Information

Name PIP4K2B ([HGNC:8998](#))

Synonyms PIP5K2B

Function Participates in the biosynthesis of phosphatidylinositol 4,5- biphosphate (PubMed:[26774281](#), PubMed:[9038203](#)). Preferentially utilizes GTP, rather than ATP, for PI(5)P phosphorylation and its activity reflects changes in direct proportion to the physiological GTP concentration (PubMed:[26774281](#)). Its GTP-sensing activity is critical for metabolic adaptation (PubMed:[26774281](#)). PIP4Ks negatively regulate insulin signaling through a catalytic-independent mechanism. They interact with PIP5Ks and suppress PIP5K-mediated PtdIns(4,5)P2 synthesis and insulin-dependent conversion to PtdIns(3,4,5)P3 (PubMed:[31091439](#)).

Cellular Location

Endoplasmic reticulum membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein. Nucleus. Cytoplasm Note=Associated with the plasma membrane and the endoplasmic reticulum

Tissue Location

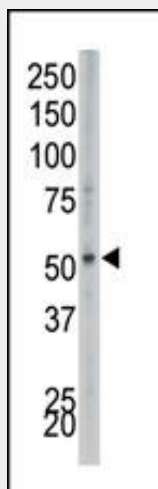
Highly expressed in brain, heart, pancreas, skeletal muscle and kidney. Detected at lower levels in placenta, lung and liver.

PIP5K2B Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PIP5K2B Antibody (N-term) - Images



The anti-PIP5K2B Pab (Cat. #AP8042a) is used in Western blot to detect PIP5K2B in NCI-H460 cell lysate.

PIP5K2B Antibody (N-term) - Background

PIP5K2B catalyzes the phosphorylation of phosphatidylinositol-4-phosphate on the fifth hydroxyl of the myo-inositol ring to form phosphatidylinositol-4,5-bisphosphate. It is a member of the phosphatidylinositol-4-phosphate 5-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.

PIP5K2B Antibody (N-term) - References

Rao, V.D., et al., Cell 94(6):829-839 (1998).
Castellino, A.M., et al., J. Biol. Chem. 272(9):5861-5870 (1997).