

**Anti-PIP5K2B (RABBIT) Antibody**  
**PIP5K2B Antibody**  
**Catalog # ASR5681****Specification**

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**Anti-PIP5K2B (RABBIT) Antibody - Product Information**

Host	Rabbit
Conjugate	Unconjugated
Target Species	Human
Reactivity	Rat, Human, Mouse, Chicken
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Anti-PIP5K2B antibody is tested for ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~54 kDa corresponding to the appropriate cell lysate or extract.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	PIP5K2B affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-terminus of human PIP5K2B.
Stabilizer	50% (v/v) Glycerol

**Anti-PIP5K2B (RABBIT) Antibody - Additional Information****Gene ID** 55300**Purity**

Anti-PIP5K2B was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific towards PIP5K2B. A BLAST analysis was used to suggest cross-reactivity with Human, Mouse, Rat, Chicken, and Primate based on 100% sequence homology. Cross-reactivity with PIP5K2B from other sources has not been determined.

**Storage Condition**

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

**Anti-PIP5K2B (RABBIT) Antibody - Protein Information**

**Name** PI4K2B**Function**

Together with PI4K2A and the type III PI4Ks (PIK4CA and PIK4CB) it contributes to the overall PI4-kinase activity of the cell (PubMed:<a href="http://www.uniprot.org/citations/11923287" target="\_blank">11923287</a>, PubMed:<a href="http://www.uniprot.org/citations/12324459" target="\_blank">12324459</a>). This contribution may be especially significant in plasma membrane, endosomal and Golgi compartments (PubMed:<a href="http://www.uniprot.org/citations/11923287" target="\_blank">11923287</a>, PubMed:<a href="http://www.uniprot.org/citations/12324459" target="\_blank">12324459</a>). The phosphorylation of phosphatidylinositol (PI) to PI4P is the first committed step in the generation of phosphatidylinositol 4,5-bisphosphate (PIP2), a precursor of the second messenger inositol 1,4,5-trisphosphate (InsP3) (PubMed:<a href="http://www.uniprot.org/citations/11923287" target="\_blank">11923287</a>, PubMed:<a href="http://www.uniprot.org/citations/12324459" target="\_blank">12324459</a>). Contributes to the production of InsP3 in stimulated cells and is likely to be involved in the regulation of vesicular trafficking.

**Cellular Location**

Cytoplasm, cytosol. Golgi apparatus membrane; Peripheral membrane protein. Endoplasmic reticulum membrane. Cell membrane. Early endosome membrane. Note=Mainly cytosolic, association with membranes of the Golgi, endoplasmic and plasma membrane is stimulated by active RAC1 (PubMed:12324459). Association with early endosomes has not been confirmed (PubMed:11923287, PubMed:12324459).

**Tissue Location**

Widely expressed..

**Anti-PIP5K2B (RABBIT) Antibody - 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](#)

**Anti-PIP5K2B (RABBIT) Antibody - Images**

Western Blot of Rabbit Anti-PIP5K2B Antibody. Lane 1: Mouse Brain homogenate samples. Load: 10 µg per lane. Primary antibody: PIP5K2B antibody at 0.2 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:40,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 54 kDa for PIP5K2B. Other band(s): None.

**Anti-PIP5K2B (RABBIT) Antibody - Background**

PIP5K2B (phosphatidylinositol-4-phosphate 5-kinase, type II, beta) functions in the Pkc1p protein kinase pathway and is required for normal vacuole morphology, cell wall integrity, and actin cytoskeleton organization. Anti-PIP5K2B antibodies are ideal for researchers interested in Cancer research.