

Datasheet for ABIN6264231  
**anti-PIP5K1A antibody (N-Term)**



[Go to Product page](#)

2 Images

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µL  |
| Target:              | PIP5K1A   |
| Binding Specificity: | N-Term  |
| Reactivity:          | Human, Mouse, Rat                                 |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This PIP5K1A antibody is un-conjugated            |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC) |

## Product Details

|                       |   |
|-----------------------|---|
| Immunogen:            | A synthesized peptide derived from human PIP5K1A, corresponding to a region within N-terminal amino acids.                |
| Isotype:              | IgG   |
| Specificity:          | PIP5K1A Antibody detects endogenous levels of total PIP5K1A.  |
| Predicted Reactivity: | Pig,Bovine,Sheep,Rabbit   |
| Purification:         | The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific). |

## Target Details

|         |         |
|---------|---------|
| Target: | PIP5K1A |
|---------|---------|

## Target Details

|                   |  |
|-------------------|--|
| Alternative Name: | PIP5K1A ( <a href="#">PIP5K1A Products</a> )   |
| Background:       | <p>Description: Catalyzes the phosphorylation of phosphatidylinositol 4-phosphate (PtdIns4P) to form phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2). PtdIns(4,5)P2 is involved in a variety of cellular processes and is the substrate to form phosphatidylinositol 3,4,5-trisphosphate (PtdIns(3,4,5)P3), another second messenger. The majority of PtdIns(4,5)P2 is thought to occur via type I phosphatidylinositol 4-phosphate 5-kinases given the abundance of PtdIns4P. Participates in a variety of cellular processes such as actin cytoskeleton organization, cell adhesion, migration and phagocytosis. Required for membrane ruffling formation, actin organization and focal adhesion formation during directional cell migration by controlling integrin-induced translocation of RAC1 to the plasma membrane. Together with PIP5K1C is required for phagocytosis, but they regulate different types of actin remodeling at sequential steps. Promotes particle ingestion by activating WAS that induces Arp2/3 dependent actin polymerization at the nascent phagocytic cup. Together with PIP5K1B is required after stimulation of G-protein coupled receptors for stable platelet adhesion. Plays a role during calcium-induced keratinocyte differentiation. Recruited to the plasma membrane by the E-cadherin/beta-catenin complex where it provides the substrate PtdIns(4,5)P2 for the production of PtdIns(3,4,5)P3, diacylglycerol and inositol 1,4,5-trisphosphate that mobilize internal calcium and drive keratinocyte differentiation. Together with PIP5K1C have a role during embryogenesis. Functions also in the nucleus where acts as an activator of TUT1 adenylyltransferase activity in nuclear speckles, thereby regulating mRNA polyadenylation of a select set of mRNAs.</p> <p>Gene: PIP5K1A</p> |
| Molecular Weight: | 62 kDa   |
| Gene ID:          | 8394   |
| UniProt:          | <a href="#">Q99755</a>   |
| Pathways:         | <a href="#">PI3K-Akt Signaling</a> , <a href="#">Mitotic G1-G1/S Phases</a> , <a href="#">Inositol Metabolic Process</a> , <a href="#">DNA Replication</a> , <a href="#">Cell-Cell Junction Organization</a> , <a href="#">Synthesis of DNA</a>  |

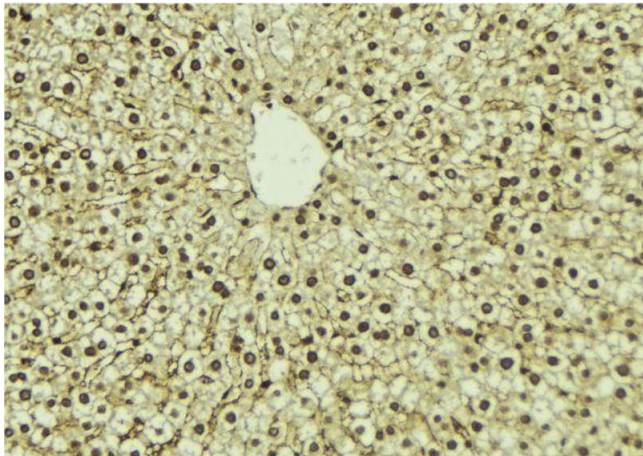
## Application Details

|                    |                                 |
|--------------------|---------------------------------|
| Application Notes: | WB 1:500-1:2000, IHC 1:50-1:200 |
| Restrictions:      | For Research Use only           |

## Handling

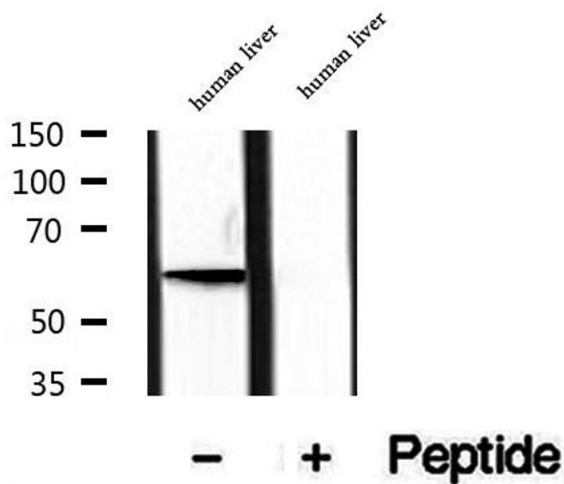
|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Concentration:     | 1 mg/mL  |
| Buffer:            | Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.                  |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C   |
| Storage Comment:   | Store at -20 °C. Stable for 12 months from date of receipt.  |
| Expiry Date:       | 12 months  |

## Images



### Immunohistochemistry

**Image 1.** ABIN6273298 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



### Western Blotting

**Image 2.** Western blot analysis of extracts of human liver tissue, using PIP5K1A antibody.