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Datasheet for ABIN6145684  
**anti-PIP5K1B antibody (AA 190-470)**

2 Images

Overview

Quantity:	100 µL
Target:	PIP5K1B
Binding Specificity:	AA 190-470
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIP5K1B antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 190-470 of human PIP5K1B (NP_003549.1).
Sequence:	NVLPRSMRMH FTYDLKGSTY KRRASRKERE KSNPTFKDLD FLQDMHEGLY FDTETYNALM KTLQRDCRVL ESFKIMDYSL LLGIHFLDHS LKEKEEETPQ NVPDAKRTGM QKVLYSTAME SIQGP GKSGD GIITENPDTM GGIPAKSHRG EKLLLFMGII DILQSYRLMK KLEHSWKALV YDGD TVSVHR PSFYADRFLK FMNSRVFKKI QALKASPSKK RCNSIAALKA TSQEIVSSIS QEWKDEKRDL LTEGQSFSSL DEEALGSRHR PDLVPSTPSL F
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

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Target:	PIP5K1B
Alternative Name:	PIP5K1B ( <a href="#">PIP5K1B Products</a> )
Background:	Catalyzes the phosphorylation of phosphatidylinositol 4-phosphate (PtdIns(4P/PI4P to form phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5P2/PIP2, a lipid second messenger that regulates several cellular processes such as signal transduction, vesicle trafficking, actin cytoskeleton dynamics, cell adhesion, and cell motility (By similarity. PtdIns(4,5P2 can directly act as a second messenger or can be utilized as a precursor to generate other second messengers: inositol 1,4,5-trisphosphate (IP3, diacylglycerol (DAG or phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5P3/PIP3 (By similarity. Mediates RAC1-dependent reorganization of actin filaments. Contributes to the activation of phospholipase PLD2. Together with PIP5K1A, is required, after stimulation by G-protein coupled receptors, for the synthesis of IP3 that will induce stable platelet adhesion (By similarity.,PIP5K1B,MSS4,STM7,Signal Transduction,Kinase,Cell Biology & Developmental Biology,Cytoskeleton,Actins,PIP5K1B
Molecular Weight:	56 kDa/61 kDa/62 kDa
Gene ID:	8395
UniProt:	<a href="#">O14986</a>
Pathways:	<a href="#">PI3K-Akt Signaling</a> , <a href="#">Inositol Metabolic Process</a> , <a href="#">Cell-Cell Junction Organization</a>

## Application Details

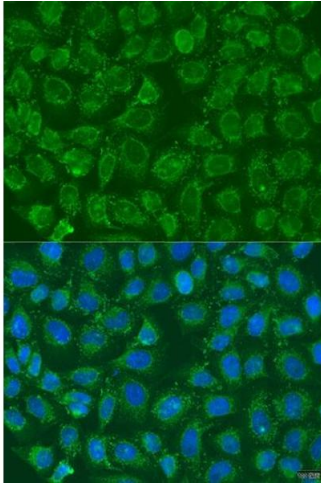
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Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

## Handling

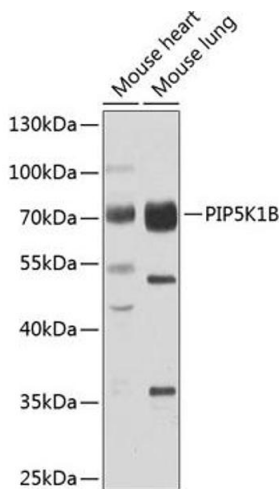
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Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



### Immunofluorescence

**Image 1.** Immunofluorescence analysis of U2OS cells using PIP5K1B antibody (ABIN6130645, ABIN6145684, ABIN6145686 and ABIN6223693) at dilution of 1:100. Blue: DAPI for nuclear staining.



### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using PIP5K1B antibody (ABIN6130645, ABIN6145684, ABIN6145686 and ABIN6223693) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.