

Rabbit PIP5K1A Polyclonal Antibody | anti-PIP5K1A antibody

PIP5K1A Antibody

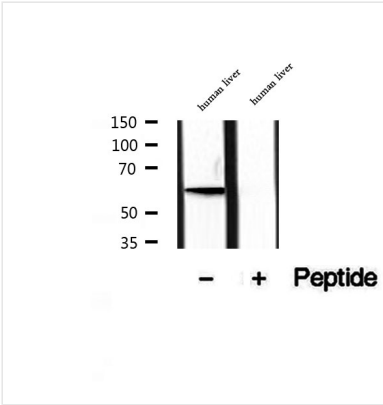
CATALOG # AAA323277	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

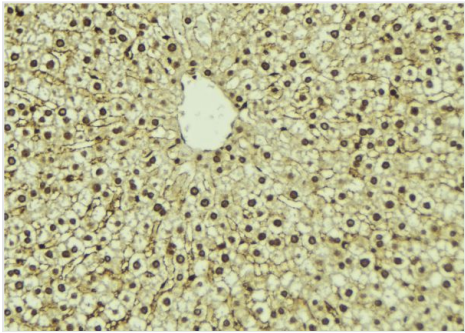
PIP5K1A; Polyclonal Antibody; PIP5K1A Antibody; 68 kDa type I phosphatidylinositol-4-phosphate 5-kinase alpha; Phosphatidylinositol 4 phosphate 5 kinase type I alpha; Phosphatidylinositol-4-phosphate 5-kinase type I alpha; Phosphatidylinositol-4-phosphate 5-kinase type-1 alpha; PI4P5K Ia; PI51A_HUMAN; PIP5K A; PIP5K1-alpha; Pip5k1a; PIP5K1alpha; PtdIns(4)P-5-kinase 1 alpha; anti-PIP5K1A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PIP5K1A antibody detects endogenous levels of PIP5K1A.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	522
Applicable Applications for anti-PIP5K1A antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PIP5K1A.
Subcellular Location	Cell Membrane. Endomembrane System. Golgi Apparatus > Golgi Stack. Nucleus Speckle. Associated with the plasma membrane and with internal membranes. Associated with golgi stacks (By similarity). Detected on RAC1-induced plasma membrane ruffles, and on membrane ruffles induced by platelet-derived growth factor. Localizes to nuclear speckles and associates with TUT1 to regulate polyadenylation of selected mRNAs.
Tissue Specificity	Highly expressed in heart, placenta, skeletal muscle, kidney and pancreas. Detected at lower levels in brain, lung and liver.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit
Similarity	Pig (100%), Bovine (90%), Sheep (90%), Rabbit (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts of human liver tissue, using PIP5K1A antibody.



IHC (Immunohistochemistry)
AAA323277 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 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-PIP5K1A antibody	Function: 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. Subunit Structure: Interacts with RAC1 (By similarity). Interacts with TUT1. Forms a complex with CDH1/E-cadherin, CTNNB1/beta-catenin and CTNND1 at the plasma membrane upon calcium stimulation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	208431774
NCBI GeneID	8394
NCBI Accession #	NP_001129108.1
NCBI GenBank Nucleotide #	NM_001135636.1
UniProt Accession #	Q99755; Q99754; Q99756; A8K4Q0; B4DIN0
Molecular Weight	Observed: 62 kDa Predicted: 63 kDa
NCBI Official Full Name	phosphatidylinositol 4-phosphate 5-kinase type-1 alpha isoform 3
NCBI Official Synonym Full Names	phosphatidylinositol-4-phosphate 5-kinase type 1 alpha
NCBI Official Symbol	PIP5K1A
NCBI Protein Information	phosphatidylinositol 4-phosphate 5-kinase type-1 alpha
UniProt Protein Name	Phosphatidylinositol 4-phosphate 5-kinase type-1 alpha

UniProt Gene Name	PIP5K1A
UniProt Synonym Gene Names	PIP5K1-alpha; PtdIns(4)P-5-kinase 1 alpha; PIP5K1alpha

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pip5k1a-antibody-immunohistochemistry-western-blot-elisa/323277>