Product Name: PIPK I γ Rabbit Polyclonal Antibody
Catalog #: APRab16162
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:10000-1:20000
Molecular Weight	80kDa

Antigen Information

Gene Name	PIP5K1C
Alternative Names	PIP5K1C; KIAA0589; Phosphatidylinositol 4-phosphate 5-kinase type-1 gamma; PIP5K1-gamma; PtdIns(4)P-5-kinase 1 gamma; Phosphatidylinositol 4-phosphate 5-kinase type I gamma; PIP5KIgamma
Gene ID	23396.0
SwissProt ID	O60331
Immunogen	The antiserum was produced against synthesized peptide derived from human PIP5K1C. AA range:305-354

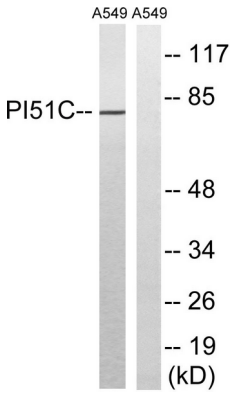
Background

phosphatidylinositol-4-phosphate 5-kinase type 1 gamma(PIP5K1C) Homo sapiens This locus encodes a type I phosphatidylinositol 4-phosphate 5-kinase. The encoded protein catalyzes phosphorylation of phosphatidylinositol 4-phosphate, producing phosphatidylinositol 4,5-bisphosphate. This enzyme is found at synapses and has been found to play roles in endocytosis and cell migration. Mutations at this locus have been associated with lethal congenital contractural syndrome. Alternatively spliced transcript variants encoding different isoforms have been described.[provided by RefSeq, Sep 2010],catalytic activity:ATP + 1-phosphatidyl-1D-myo-inositol 4-phosphate = ADP + 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate.,disease:Defects in PIP5K1C are the cause of lethal congenital contractural syndrome type 3 (LCCS3) [MIM:611369]; also known as multiple contractural syndrome Israeli Bedouin type B. LCCS is an autosomal recessive disorder characterized by early fetal hydrops and akinesia, the Pena-Shokeir phenotype, specific neuropathology with degeneration of anterior horn neurons and extreme skeletal muscle atrophy. LCCS3 patients present at birth with severe multiple joint contractures with severe muscle wasting and atrophy, mainly in the legs. LCCS3 can be distinguished from the original LCCS by the absence of hydrops, fractures, and multiple pterygia.,enzyme regulation:Activated by interaction with TLN2.,function:Plays a role in membrane ruffling and assembly of clathrin-coated pits at the synapse. Mediates RAC1-dependent reorganization of actin filaments (By similarity). Participates in the biosynthesis of phosphatidylinositol-4,5-bisphosphate.,similarity:Contains 1 PI5K domain.,subcellular location:Cytoplasmic, associated with the plasma membrane. Detected in focal adhesion plaques, membrane ruffles and plasma membrane invaginations.,subunit:Interacts with TLN1 and CSK (By similarity). Interacts with TLN2 and ARF6.,

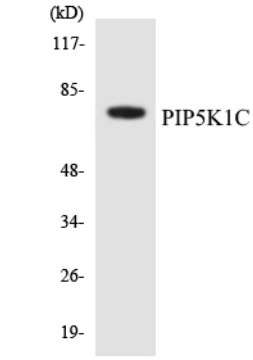
Research Area

Inositol phosphate metabolism;Phosphatidylinositol signaling system;Endocytosis;Focal adhesion;Fc gamma R-mediated phagocytosis;Regulates Actin and Cytoskeleton;

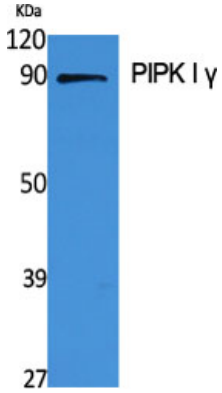
Image Data



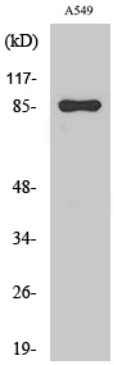
Western blot analysis of lysates from A549 cells, using PIP5K1C Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HepG2 cells using PIP5K1C antibody.



Western Blot analysis of various cells using PIPK I γ Polyclonal Antibody



Western Blot analysis of A549 cells using PIPK I γ Polyclonal Antibody