PIPK I γ Rabbit pAb

CatalogNo: YT3735 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Rat,Mouse,

Applications
- WB,ELISA

MW
- 80kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-1:2000
ELISA 1:20000
Not yet tested in other applications.

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human PIP5K1C. AA range:305-354
Specificity	PIPK I γ Polyclonal Antibody detects endogenous levels of PIPK I γ protein.

Target Information

Gene name PIP5K1C

Protein Name Phosphatidylinositol 4-phosphate 5-kinase type-1 gamma

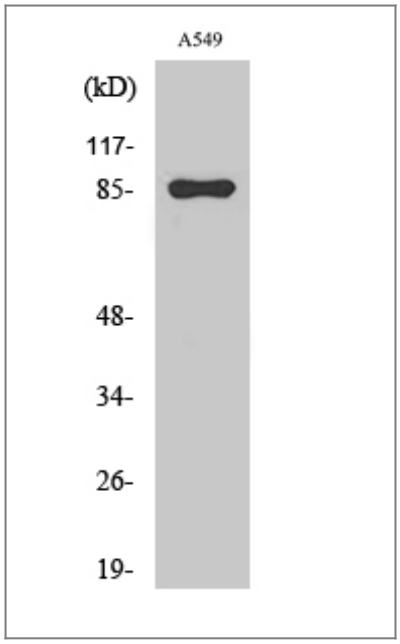
Organism	Gene ID	UniProt ID
Human	23396;	O60331;
Mouse		O70161;

Cellular Localization Cell membrane; Peripheral membrane protein; Cytoplasmic side . Endomembrane system . Cytoplasm . Cell junction, focal adhesion . Cell junction, adherens junction . Cell projection, ruffle membrane . Cell projection, phagocytic cup . Cell projection, uropodium . Detected in plasma membrane invaginations. Isoform 3 is detected in intracellular vesicle-like structures.; [Isoform 2]: Cytoplasm. Nucleus.

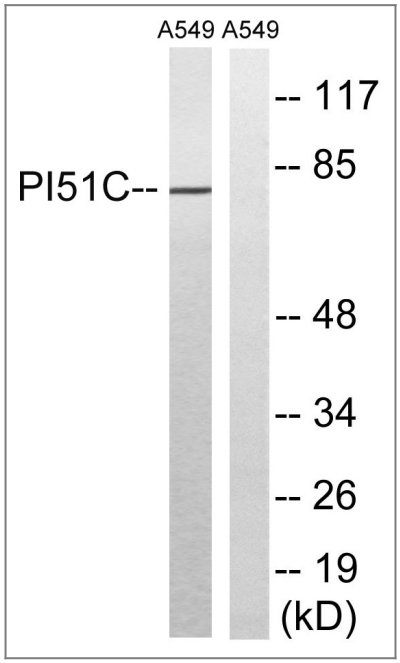
Tissue specificity [Isoform 1]: Isoform 1 is strongly expressed in brain and also detected in heart and lung. ; [Isoform 2]: Isoform 2 is strongly expressed in pancreas and liver and in lesser quantities in brain, heart, lung and kidney. ; [Isoform 3]: Isoform 3 is detected in large amounts in heart and large intestine, is also present in lung, pancreas and thyroid, and to a lesser extent in brain, stomach and kidney.

Function 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.,

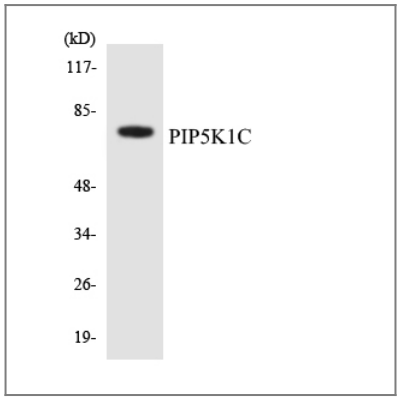
Validation Data



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



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.

Contact information

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Please scan the QR code to access additional product information:
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