

Product Name: KD-Validated PIP5K1C Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00364**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 73.3kDa

Antigen Information

Gene Name	PIP5K1C PIP5K1C; Phosphatidylinositol-4-Phosphate 5-Kinase Type 1 Gamma; PIP5Kgamma; KIAA0589; LCCS3; Phosphatidylinositol-4-Phosphate 5-Kinase, Type I, Gamma;
Alternative Names	Phosphatidylinositol 4-Phosphate 5-Kinase Type-1 Gamma; Type I Phosphatidylinositol 4-Phosphate 5-Kinase Gamma; PtdIns(4)P-5-Kinase 1 Gamma; PIP5K1gamma; EC 2.7.1.68; Diphosphoinositide Kinase; Type I PIP Kinase; PIP5K1-Gamma; PIP5K-GAMMA; EC 2.7.1
Gene ID	23396.0
SwissProt ID	O60331
Immunogen	A synthesized peptide derived from human PIP5K1C

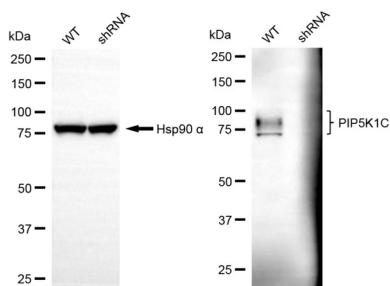
Background

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]

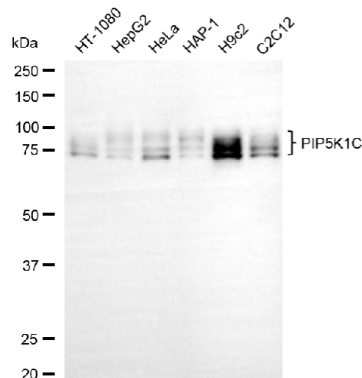
Research Area

Signal Transduction

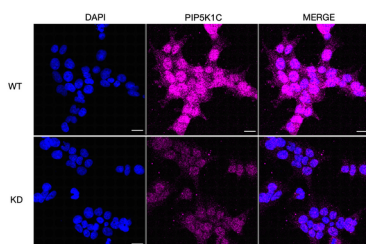
Image Data



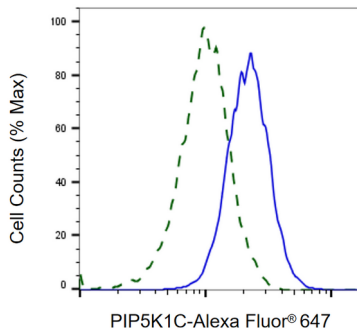
Western blotting analysis using PIP5K1C antibody (KVA00364). PIP5K1C expression in wild-type (WT) and PIP5K1C shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PIP5K1C antibody (KVA00364, 1:2,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using PIP5K1C antibody (KVA00364). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PIP5K1C antibody (KVA00364, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using PIP5K1C antibody (KVA00364, 1:1,000), Top panel: wild-type (WT); Bottom panel: PIP5K1C shRNA knockdown (KD). Nuclei were stained blue with DAPI; PIP5K1C was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Validation of PIP5K1C knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with PIP5K1C antibody (KVA00364, 1:2,000) and analyzed using BD flow cytometer.