

Product Name: KD-Validated PIP4K2A Mouse Monoclonal Antibody**Catalog #: KVA00437**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse 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 1:500-1:2,500; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 46.2kDa

Antigen Information

Gene Name	PIP4K2A PIP4K2A; Phosphatidylinositol-5-Phosphate 4-Kinase Type 2 Alpha; PIP5KIIalpha; PIP5KIIA; PIP5K2A; Phosphatidylinositol-4-Phosphate 5-Kinase, Type II, Alpha; Phosphatidylinositol 5-Phosphate 4-Kinase Type II Alpha; Phosphatidylinositol 5-Phosphate 4-Kinase Type-2 Alpha; 1-Phosphatidylinositol 5-Phosphate 4-Kinase 2-Alpha; Diphosphoinositide Kinase 2-Alpha;
Alternative Names	PI(5)P 4-Kinase Type II Alpha; PIP4KII-Alpha; EC 2.7.1.149; PI5P4Kalpha; PIP5KIII; PI5P4KA; Phosphatidylinositol-5-Phosphate 4-Kinase, Type II, Alpha; 1-Phosphatidylinositol-4-Phosphate-5-Kinase; 1-Phosphatidylinositol-4-Phosphate Kinase; Phosphatidylinositol 5-Phosphate 4-Kinase; PtdIns(5)P-4-Kinase Isoform 2-Alpha; PtdIns(4)P-5-Kinase B Isoform; PtdIns(4)P-5-Kinase C Isoform; PIP5KII-Alpha; EC 2.7.1; PIP5K2; PIPK
Gene ID	5305.0

SwissProt ID P48426
Immunogen Recombinant protein of human PIP4K2A

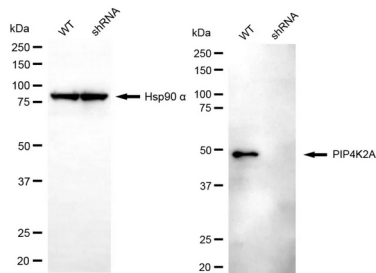
Background

Phosphatidylinositol-5,4-bisphosphate, the precursor to second messengers of the phosphoinositide signal transduction pathways, is thought to be involved in the regulation of secretion, cell proliferation, differentiation, and motility. The protein encoded by this gene is one of a family of enzymes capable of catalyzing the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-5,4-bisphosphate. The amino acid sequence of this enzyme does not show homology to other kinases, but the recombinant protein does exhibit kinase activity. This gene is a member of the phosphatidylinositol-5-phosphate 4-kinase family. [provided by RefSeq, Jul 2008]

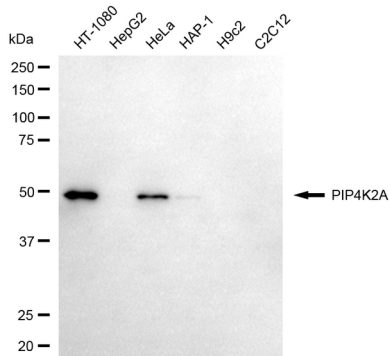
Research Area

Cell Biology

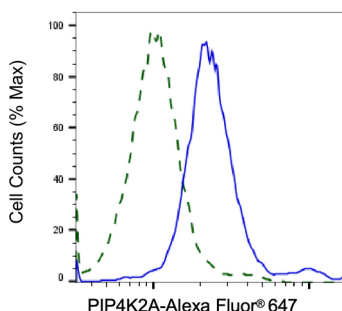
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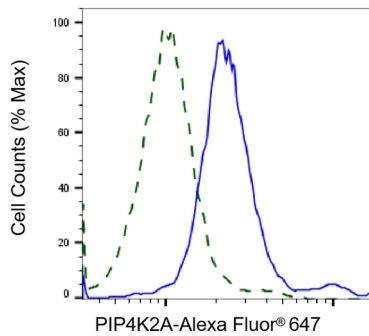
Western blotting analysis using PIP4K2A antibody (KVA00437). PIP4K2A expression in wild-type (WT) and PIP4K2A shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PIP4K2A antibody (KVA00437, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using PIP4K2A antibody (KVA00437). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PIP4K2A antibody (KVA00437, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Validation of PIP4K2A knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with PIP4K2A antibody (KVA00437, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of PIP4K2A expression in HT-1080 cells using PIP4K2A antibody (KVA00437, 1:2,000). Green, isotype control; red, PIP4K2A.