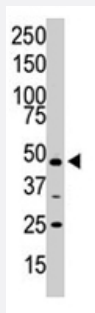


# PIP4K2A polyclonal antibody

Catalog # PAB2134

Size 400 uL

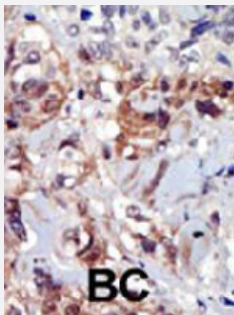
## Applications



### Western Blot (Cell lysate)

Western blot analysis of PIP4K2A polyclonal antibody (Cat # PAB2134) in HL-60 cell lysate. PIP4K2A (arrow) was detected using purified Polyclonal antibody.

Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with PIP4K2A polyclonal antibody (Cat # PAB2134), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.

This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

## Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PIP4K2A.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human PIP4K2A.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

<b>Recommend Usage</b>	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

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## Gene Info — PIP4K2A

<b>Entrez GeneID</b>	<a href="#">5305</a>
<b>Protein Accession#</b>	<a href="#">NP_005019</a>
<b>Gene Name</b>	PIP4K2A
<b>Gene Alias</b>	FLJ13267, PI5P4KA, PIP5K2A, PIP5KII-alpha, PIP5KIIA, PIPK
<b>Gene Description</b>	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha
<b>Omim ID</b>	<a href="#">603140</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

## Gene Summary

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]

## Other Designations

1-phosphatidylinositol-4-phosphate kinase|1-phosphatidylinositol-4-phosphate-5-kinase|OTTHUMP00000019300|OTTHUMP00000043353|PIP5KIIalpha|PtdIns(4)P-5-kinase B isoform|diphosphoinositide kinase|phosphatidylinositol-4-phosphate 5-kinase, type II, alpha|type

## Publication Reference

- [Protein kinase C mediates translocation of type II phosphatidylinositol 5-phosphate 4-kinase required for platelet alpha-granule secretion.](#)

Rozenvayn N, Flaumenhaft R.

The Journal of Biological Chemistry 2003 Mar; 278(10):8126.

Application: WB-Ce, Human, Human platelets

- [The phosphatidylinositol 4-phosphate 5-kinase family.](#)

Loijens JC, Boronenkov IV, Parker GJ, Anderson RA.

Advances in Enzyme Regulation 1996 Jan; 36:115.

- [The sequence of phosphatidylinositol-4-phosphate 5-kinase defines a novel family of lipid kinases.](#)

Boronenkov IV, Anderson RA.

The Journal of Biological Chemistry 1995 Feb; 270(7):2881.

Application: WB-Ce, WB-Ti, Human, Human tissues

## Pathway

- [Inositol phosphate metabolism](#)
- [Phosphatidylinositol signaling system](#)
- [Regulation of actin cytoskeleton](#)

## Disease

- [Alzheimer Disease](#)
- [Bipolar Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)