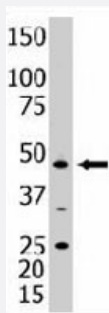


PIP4K2A polyclonal antibody

Catalog # PAB3234

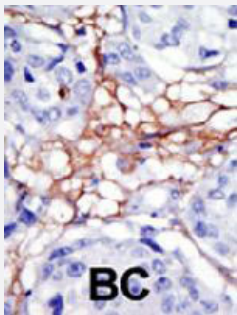
Size 400 uL

Applications



Western Blot (Tissue lysate)

The PIP4K2A polyclonal antibody (Cat # PAB3234) is used in Western blot to detect PIP4K2A in mouse skeletal muscle tissue lysate.



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

Formalin-fixed and paraffin-embedded human cancer tissue reacted with PIP4K2A polyclonal antibody (Cat # PAB3234), which was peroxidase-conjugated to the secondary antibody, followed by DAB 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 N-terminus of human PIP4K2A.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification

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

Applications

- Western Blot (Tissue lysate)

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Gene Info — PIP4K2A

Entrez GeneID	5305
Protein Accession#	P48426
Gene Name	PIP4K2A
Gene Alias	FLJ13267, PI5P4KA, PIP5K2A, PIP5KII-alpha, PIP5KIIA, PIPK
Gene Description	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha
Omim ID	603140
Gene Ontology	Hyperlink

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](#)