PIP4K2A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PIP4K2A, Polyclonal Antibody
Full Product Name	PIP4K2A (C-Term) Rabbit pAb
Product Gene Name	anti-PIP4K2A antibody
Product Synonym Names	Phosphatidylinositol 5-phosphate 4-kinase type-2 alpha; 1-phosphatidylinositol 5-phosphate 4-kinase 2-alpha; Diphosphoinositide kinase 2-alpha; PIP5KIII; Phosphatidylinositol 5-phosphate 4-kinase type II alpha; PI(5)P 4-kinase type II alpha; PIP4KII-alpha; PtdIns(4)P-5-kinase B isoform; PtdIns(4)P-5-kinase C isoform; PtdIns(5)P-4-kinase isoform 2-alpha; PIP4K2A; PIP5K2; PIP5K2A
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB51766
Host	Rabbit
Species Reactivity	Mouse
Purity/Purification	Affinity Purified
OMIM	603140
3D Structure	ModBase 3D Structure for P48426
Immunogen	This PIP4K2A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 365-400 amino acids from the C-terminal region of human PIP4K2A.
Cellular Localization	Cell Membrane, Cytoplasm, Membrane, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PIP4K2A antibody	Western Blot (WB)
Application Notes for anti-PIP4K2A antibody	WB: 1:1000
Related Product Information for anti-PIP4K2A antibody	MBS8556298 is an antibody targeting PIP4K2A. Also known as PIP4K2A (C-Term) Rabbit pAb. Reactive in Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-PIP4K2A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PIP4K2A. It may not necessarily be applicable to this product.

NCBI GI #	6857820
NCBI GeneID	5305
NCBI Accession #	NP_005019.2
UniProt Primary Accession #	P48426
UniProt Related Accession #	P48426

GenBank Nucleotide #	NP_005019.2
NCBI Official Full Name	phosphatidylinositol 5-phosphate 4-kinase type-2 alpha isoform 1
NCBI Official Synonym Full Names	phosphatidylinositol-5-phosphate 4-kinase type 2 alpha
NCBI Official Symbol	PIP4K2A
NCBI Official Synonym Symbols	PIPK; PI5P4KA; PIP5K2A; PIP5KIIA; PIP5KII-alpha
UniProt Protein Name	Phosphatidylinositol 5-phosphate 4-kinase type-2 alpha
UniProt Synonym Protein Names	1-phosphatidylinositol 5-phosphate 4-kinase 2-alpha; Diphosphoinositide kinase 2-alpha; PIP5KIII; Phosphatidylinositol 5-phosphate 4-kinase type II alpha; PI(5)P 4-kinase type II alpha; PIP4KII-alpha; PtdIns(4)P-5-kinase B isoform; PtdIns(4)P-5-kinase C isoform; PtdIns(5)P-4-kinase isoform 2-alpha
Protein Family	Phosphatidylinositol 5-phosphate 4-kinase
UniProt Gene Name	PIP4K2A
UniProt Synonym Gene Names	PIP5K2; PIP5K2A; PI(5)P 4-kinase type II alpha; PIP4KII-alpha
UniProt Entry Name	PI42A_HUMAN
NCBI Protein Information	phosphatidylinositol 5-phosphate 4-kinase type-2 alpha
NCBI Summary for PIP4K2A	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]
UniProt Comments for PIP4K2A	PIP4K2A: Catalyzes the phosphorylation of phosphatidylinositol 5- phosphate (PtdIns5P) on the fourth hydroxyl of the myo-inositol ring, to form phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2). May exert its function by regulating the levels of PtdIns5P, which functions in the cytosol by increasing AKT activity and in the nucleus signals through ING2. May regulate the pool of cytosolic PtdIns5P in response to the activation of tyrosine phosphorylation. May negatively regulate insulin- stimulated glucose uptake by lowering the levels of PtdIns5P. May be involved in thrombopoiesis, and the terminal maturation of megakaryocytes and regulation of their size. Protein type: EC 2.7.1.149; Motility/polarity/chemotaxis; Kinase, lipid; Carbohydrate Metabolism - inositol phosphate Chromosomal Location of Human Ortholog: 10p12.2 Cellular Component: plasma membrane; cytosol; nucleus Molecular Function: 1-phosphatidylinositol-4-phosphate 5-kinase activity; 1-phosphatidylinositol-5-phosphate 4-kinase activity; ATP binding Biological Process: phosphoinositide phosphorylation; phospholipid metabolic process; phosphatidylinositol biosynthetic process
Research Articles on PIP4K2A	**1.** The PIP4K2A plays a critical role in intracellular cholesterol transport by upregulating PI(4,5)P2 levels in the peroxisomal membrane.
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