



Anti-PIP4K2A (aa 304-365) polyclonal antibody (DPAB-DC2256)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	PIP5K2A (NP_005019, 304 a.a. ~ 365 a.a) partial recombinant protein with GST tag. The sequence is SDGTHPVGTPPDSPGNTLNSSPPLAPGEFDPNIDVYGIKCHENSPRKEVYFMAIIDILTH YD
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PIP4K2A phosphatidylinositol-5-phosphate 4-kinase, type II, alpha [Homo sapiens (human)]
Official Symbol	PIP4K2A
Synonyms	PIP4K2A; phosphatidylinositol-5-phosphate 4-kinase, type II, alpha; PIPK; PI5P4KA; PIP5K2A; PIP5KIIA; PIP5KII-alpha; phosphatidylinositol 5-phosphate 4-kinase type-2 alpha; PIP5KIII; PIP5KIIalpha; PIP4KII-alpha; PI(5)P 4-kinase type II alpha; PtdIns(4)P-5-kinase B isoform; ptdIns(4)P-5-kinase C isoform; diphosphoinositide kinase 2-alpha; ptdIns(5)P-4-kinase isoform 2-alpha; 1-phosphatidylinositol-4-phosphate kinase; 1-phosphatidylinositol-4-phosphate-5-kinase; 1-phosphatidylinositol 5-phosphate 4-kinase 2-alpha; 1-phosphatidylinositol-5-phosphate 4-kinase 2-alpha; phosphatidylinositol-5-phosphate 4-kinase type-2 alpha; phosphatidylinositol 5-phosphate 4-kinase type II alpha; phosphatidylinositol-4-phosphate 5-kinase, type II, alpha; type II phosphatidylinositol-4-phosphate 5-kinase 53 K isoform;
Entrez Gene ID	5305
Protein Refseq	NP_005019
UniProt ID	P48426
Chromosome Location	10p12.2
Pathway	B Cell Receptor Signaling Pathway; D-myo-inositol (1,4,5)-trisphosphate biosynthesis; D-myo-inositol-5-phosphate metabolism; Inositol phosphate metabolism
Function	1-phosphatidylinositol-4-phosphate 5-kinase activity; 1-phosphatidylinositol-5-phosphate 4-kinase activity; ATP binding;