

## Product datasheet for TP305243

### PIP5K2 alpha (PIP4K2A) (NM\_005028) Human Recombinant Protein

#### Product data:

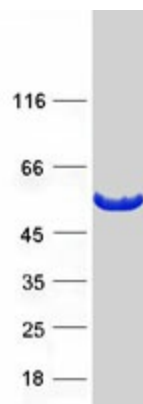
<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human phosphatidylinositol-5-phosphate 4-kinase, type II, alpha (PIP4K2A), 20 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC205243 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MATPGNLGSSVLASKTKTKKKHFVAQKVKLFRASDPLLSVLMWGVNHSINELSHVQIPVMLMPDDFKAY S KIKVDNHLFNKENMPSHFKFKEYCPMVFRNLRRERFGIDDQDFQNSLTRSAPLPNDSQARSGARFHTSYD K RYIIKTITSEDVAEMHNILKKYHQYIVECHGITLLPQFLGMYRLNVDGVEIYVIVTRNVFSHRLSVYRKY DLKGSTVAREASDKEKAKELPTLKDNDFINEGQKIYIDDNNKKVFLEKLLKDDVEFLAQLKLM DYSLVGI HDVERAEQEEVECEENDGEEEGESDGTHPVGTTPDSPGNTLNSSPPLAPGEFDPNIDVYGIKCHENS PRK EYFMAIIDILTHYDAKKKAAHAAKTVKHGAGAEISTVNPEQYSKRFLDFIGHILT
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	46 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_005019</a>
<b>Locus ID:</b>	5305
<b>UniProt ID:</b>	<a href="#">P48426</a>
<b>RefSeq Size:</b>	3833
<b>Cytogenetics:</b>	10p12.2
<b>RefSeq ORF:</b>	1218
<b>Synonyms:</b>	PI5P4KA; PIP5K2A; PIP5KII-alpha; PIP5KIIA; PIPK
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Inositol phosphate metabolism, Phosphatidylinositol signaling system, Regulation of actin cytoskeleton

### Product images:



Coomassie blue staining of purified PIP4K2A protein (Cat# TP305243). The protein was produced from HEK293T cells transfected with PIP4K2A cDNA clone (Cat# [RC205243]) using MegaTran 2.0 (Cat# [TT210002]).