

Recombinant Human PIP4K2A 293 Cell Lysate

Cat. No. PIP4K2A-3175HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for phosphatidylinositol-5-phosphate 4-kinase, type II, alpha (PIP4K 2A) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	PIP4K2A phosphatidylinositol-5-phosphate 4-kinase, type II, alpha [Homo sapiens]
Official Symbol	PIP4K2A
Synonyms	PIP4K2A; phosphatidylinositol-5-phosphate 4-kinase, type II, alpha; phosphatidylinositol 4 phosphate 5 kinase, type II, alpha , PIP5K2A; phosphatidylinositol-5-phosphate 4-kinase type-2 alpha; PIP5KIIA; PIP5KIIalpha; PIP5KIII; 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; phosphatidylinositol-4-phosphate 5-kinase, type II, alpha; type II phosphatidylinositol-4-phosphate 5-kinase 53 K isoform; PIPK; PI5P4KA; PIP5K2A; FLJ13267; PIP5KII-alpha;
Gene ID	5305
mRNA Refseq	NM_005028
Protein Refseq	NP_005019
MIM	603140
UniProt ID	P48426
Chromosome Location	10p12.2

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Pathway

B Cell Receptor Signaling Pathway, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol-5-phosphate metabolism, organism-specific biosystem; G13 Signaling Pathway, organism-specific biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Phosphatidylinositol signaling system, organism-specific biosystem;

Function

1-phosphatidylinositol-4-phosphate 5-kinase activity; 1-phosphatidylinositol-5-phosphate 4-kinase activity; ATP binding; nucleotide binding; transferase activity;

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