

Recombinant Human ITPK1 293 Cell Lysate

Cat. No. ITPK1-5112HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), transcript variant 1 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/DDK 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.

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

GENE INFORMATION
Gene Name

ITPK1 inositol-tetrakisphosphate 1-kinase [Homo sapiens]

Official Symbol

ITPK1

Synonyms

ITPK1; inositol-tetrakisphosphate 1-kinase; inositol 1,3,4 triphosphate 5/6 kinase; ins(1,3,4)P(3) 5/6-kinase; inositol-triphosphate 5/6-kinase; inositol 1,3,4-triphosphate 5/6 kinase; inositol 1,3,4-trisphosphate 5/6 kinase; inositol 1,3,4-trisphosphate 5/6-kinase; ITRPK1;

Gene ID

3705

mRNA Refseq

NM_001142593

Protein Refseq

NP_001136065

MIM

601838

UniProt ID

Q13572

Chromosome Location

14q32.12

Pathway

1D-myo-inositol hexakisphosphate biosynthesis II (mammalian), organism-specific biosystem; 1D-myo-inositol hexakisphosphate biosynthesis II (mammalian), conserved biosystem; 1D-myo-inositol hexakisphosphate biosynthesis V (from

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Ins(1,3,4)P₃), organism-specific biosystem; D-myo-inositol (1,4,5,6)-tetrakisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol (1,4,5,6)-tetrakisphosphate biosynthesis, conserved biosystem; D-myo-inositol (3,4,5,6)-tetrakisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol (3,4,5,6)-tetrakisphosphate biosynthesis, conserved biosystem;

Function

ATP binding; catalytic activity; hydrolase activity; inositol tetrakisphosphate 1-kinase activity; inositol-1,3,4-trisphosphate 5-kinase activity; inositol-1,3,4-trisphosphate 6-kinase activity; isomerase activity; kinase activity; ligase activity; magnesium ion binding; nucleotide binding; transferase activity;