

## Recombinant Human ITPK1 293 Cell Lysate

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

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

## GENE INFORMATION

<b>Gene Name</b>	ITPK1 inositol-tetrakisphosphate 1-kinase [ Homo sapiens ]
<b>Official Symbol</b>	ITPK1
<b>Synonyms</b>	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;
<b>Gene ID</b>	3705
<b>mRNA Refseq</b>	NM_001142593
<b>Protein Refseq</b>	NP_001136065
<b>MIM</b>	601838
<b>UniProt ID</b>	Q13572
<b>Chromosome Location</b>	14q32.12
<b>Pathway</b>	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 Ins(1,3,4)P3), organism-specific biosystem; D-myo-inositol (1,4,5,6)-tetrakisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol

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(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;

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