

## Recombinant Human ITPKB cell lysate

**Cat. No.** ITPKB-883HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Description</b>	The protein encoded by this protein regulates inositol phosphate metabolism by phosphorylation of second messenger inositol 1,4,5-trisphosphate to Ins(1,3,4,5)P <sub>4</sub> . The activity of this encoded protein is responsible for regulating the levels of a large number of inositol polyphosphates that are important in cellular signaling. Both calcium/calmodulin and protein phosphorylation mechanisms control its activity.
<b>Size</b>	100 ul
<b>Storage Buffer</b>	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
<b>Applications</b>	Western Blot;

### GENE INFORMATION

<b>Gene Name</b>	ITPKB inositol-trisphosphate 3-kinase B [ Homo sapiens ]
<b>Official Symbol</b>	ITPKB
<b>Synonyms</b>	ITPKB; inositol-trisphosphate 3-kinase B; inositol 1,4,5 trisphosphate 3 kinase B; IP3 3KB; IP3KB; IP3K B; IP3 3-kinase B; insP 3-kinase B; proliferation-inducing protein 37; inositol 1,4,5-trisphosphate 3-kinase B; IP3K; PIG37; IP3K-B; IP3-3KB;

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<b>Gene ID</b>	3707
<b>mRNA Refseq</b>	NM_002221
<b>Protein Refseq</b>	NP_002212
<b>MIM</b>	147522
<b>UniProt ID</b>	P27987
<b>Chromosome Location</b>	1q42.12
<b>Pathway</b>	1D-myo-inositol hexakisphosphate biosynthesis II (mammalian), organism-specific biosystem; 1D-myo-inositol hexakisphosphate biosynthesis II (mammalian), conserved biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; D-myo-inositol (1,3,4)-trisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol (1,3,4)-trisphosphate biosynthesis, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem;
<b>Function</b>	ATP binding; calmodulin binding; inositol-1,4,5-trisphosphate 3-kinase activity; kinase activity; nucleotide binding; transferase activity;

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