

# Recombinant Full Length Human ITPKB Protein, GST-tagged

Cat. No. ITPKB-5840HF    Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ITPKB full-length ORF ( AAH15009.1, 1 a.a. - 644 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>Protein Length</b>	644 amino acids
<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)P4. 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. [provided by RefSeq]
<b>Molecular Mass</b>	93.8 kDa
<b>AA Sequence</b>	MAVYCYALNSLVIMNSANEMKSGGGPGPSGSETPPPPRRAVLSPGSVFSPGRGAS FLFPPAESLSPEEPRSPGGWRSRRLNSSSGSGSGSSGSSVSSPSWAGRLRGD RQQVVAAGTLPSPGPEEAKRKLRLQRELQNVQVNQKVGMFEAHIQAQSSAIQAPR SPRLGRAHSPSPCFRSSSQPPGRVLVQGARSEERTKSWGEQCPETSGTDSGR KGGPSLCSSQVKKGMPPLPGRAAPTGSEAQGPSAFVRMEKGIPASPRCGSPTAME IDKRGSPTPGTRSCCLAPSLGLFGASLTMATEVAARVTSTGPHRPQDLALTEPSGRAR ELEDLQPPEALVERQQQLGSETSPAPERGGPRDGEPPGKMGKGYLPCGMPGSG

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EPEVGKRPEETT VSVQSAESSDALSWRLPRALASVGPEEARSGAPVGGGRWQLS  
 DRVEGGSP TLG LLGGSPSAQPGTGNVEAGIPSGRMLEPLPCWDAAKDLKEPQCPP  
 GDRVGVQP GNSRVWQGTMEKAGLAWTRGTGVQSEGTWESQRQDSDALP SPELL  
 PQDQDKPFLRKACSPSNIPAVIITDMGTQEDGALEETQGGSPRGNLPLRKLSSSSASS  
 TGFSSSYEDSEEDISSDPERTLDPNSAFLHTLDQQKPRV

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**  
 Best use within three months from the date of receipt of this protein.

**Storage**  
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**  
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [ITPKB inositol-trisphosphate 3-kinase B \[ Homo sapiens \]](#)

**Official Symbol** [ITPKB](#)

**Synonyms**  
 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;

**Gene ID** [3707](#)

**mRNA Refseq** [NM\\_002221](#)

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**Protein Refseq** NP\_002212

**MIM** 147522

**UniProt ID** P27987

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