

# 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>ProteinLength</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<br>FLFPPAESLSPEEPRSPGGWRSGRRRLNSSSGSGSGSSGSSVSSPSWAGRLRGD<br>RQQVVAAGTLPSPGPEEAKRKLRILQRELQNVQVNQKVGMFEAHIQAQSSAIQAPR<br>SPRLGRAHSPSPCPFRSSSQPPGRVLVQGARSEERTKSWGEQCPETSGTDSGR<br>KGGPSLCSSQVKKGMPPLPGRAAPTGSEAQGSAFVRMEKGIPASPRCGSPTAME<br>IDKRGSPTPGTRSLAPSLGLFGASLTMAATEVAARVTSTGPHRPQDLALTEPSGRAR<br>ELEDLQPPEALVERQGQFLGSETSPAPERGGPRDGEPPGKMGKGYLPCGMPGSG                           |

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EPEVGKRPEETTVSVQSAESSDALSWRLPRALASVGPEEARSGAPVGGGRWQLS  
 DRVEGGSPTLGLLGGSPSAQPGTGNVEAGIPSGRMLEPLPCWDAAKDLKEPQCPP  
 GDRVGVQPGNSRVWQGTMEKAGLAWTRGTGVQSEGTWESQRQDSDALPSPPELL  
 PQDQDKPFLRKACSPSNIPAVIITDMGTQEDGALEETQGSPRGNLPLRKLSSSSASS  
 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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