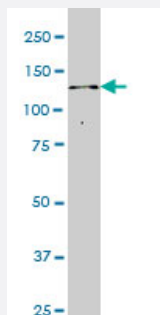


# ITPKB monoclonal antibody (M01), clone 2F8

Catalog # H00003707-M01

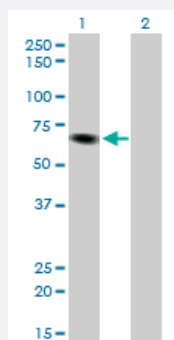
Size 100 ug

## Applications



### Western Blot (Cell lysate)

ITPKB monoclonal antibody (M01), clone 2F8 Western Blot analysis of ITPKB expression in Jurkat ( Cat # L017V1 ).

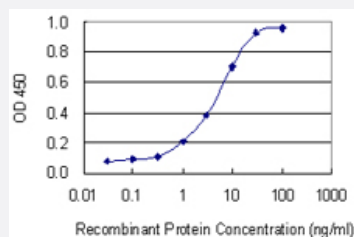


### Western Blot (Transfected lysate)

Western Blot analysis of ITPKB expression in transfected 293T cell line by ITPKB monoclonal antibody (M01), clone 2F8.

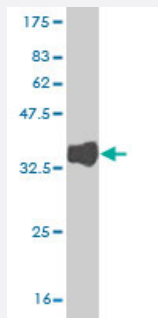
Lane 1: ITPKB transfected lysate(67.4 KDa).

Lane 2: Non-transfected lysate.



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ITPKB is 0.1 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.52 KDa) .

## Specification

|                                |                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Mouse monoclonal antibody raised against a partial recombinant ITPKB.                                              |
| <b>Immunogen</b>               | ITPKB (NP_002212, 545 a.a. ~ 643 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| <b>Sequence</b>                | PELLPQDQDKPFLRKACSPSNIPAVIITDMGTQEDGALEETQGSPRGNLPLRKLSSSSASSTGFS<br>SSYEDSEEDISSDPERTLDPNSAFLHTLDQQKPR            |
| <b>Host</b>                    | Mouse                                                                                                              |
| <b>Reactivity</b>              | Human                                                                                                              |
| <b>Isotype</b>                 | IgG2b Kappa                                                                                                        |
| <b>Quality Control Testing</b> | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (36.52 KDa) .           |
| <b>Storage Buffer</b>          | In 1x PBS, pH 7.4                                                                                                  |
| <b>Storage Instruction</b>     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                           |

## Applications

- Western Blot (Cell lysate)

ITPKB monoclonal antibody (M01), clone 2F8 Western Blot analysis of ITPKB expression in Jurkat ( Cat # L017V1 ).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of ITPKB expression in transfected 293T cell line by ITPKB monoclonal antibody (M01), clone 2F8.

Lane 1: ITPKB transfected lysate(67.4 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ITPKB is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — ITPKB

Entrez GeneID [3707](#)

GeneBank Accession# [NM\\_002221](#)

Protein Accession# [NP\\_002212](#)

Gene Name ITPKB

Gene Alias IP3K, IP3K-B, IP3KB, PIG37

Gene Description inositol 1,4,5-trisphosphate 3-kinase B

Omim ID [147522](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** 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]

**Other Designations** 1D-myo-inositol-trisphosphate 3-kinase B|IP3 3-kinase|OTTHUMP00000035705|proliferation-inducing protein 37

## Publication Reference

- [Human inositol-1,4,5-trisphosphate 3-kinase isoform B \(IP3KB\) is a nucleocytoplasmic shuttling protein specifically enriched at cortical actin filaments and at invaginations of the nuclear envelope.](#)

Nalaskowski MM, Fliegert R, Ernst O, Brehm MA, Fanick W, Windhorst S, Lin H, Giehler S, Hein J, Lin YN, Mayr GW.

The Journal of Biological Chemistry 2011 Feb; 286(6):4500.

Application: IF, WB, Human, Mewo cells

## Pathway

- [Calcium signaling pathway](#)
- [Inositol phosphate metabolism](#)
- [Metabolic pathways](#)
- [Phosphatidylinositol signaling system](#)

## Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Tobacco Use Disorder](#)