

## Rabbit anti-Human, Mouse ITPK1 Polyclonal Antibody | anti-ITPK1 antibody

ITPK1 Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                                                 |
|-----------|--------|--------------|--------------------------------------------------------------|
| AAA323968 | Rabbit | Human, Mouse | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

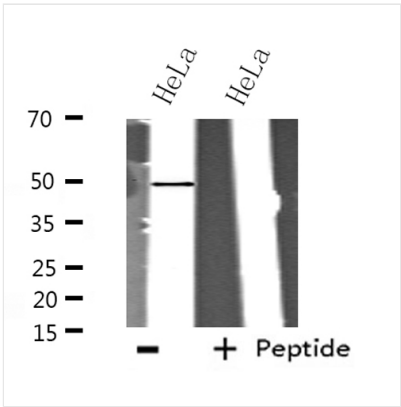
### PRODUCT SYNONYMS

ITPK1; Polyclonal Antibody; ITPK1 Antibody; 3; 4)P(3) 5/6-kinase; 4-trisphosphate 5/6-kinase; Inositol 1 3 4 triphosphate 5/6 kinase; Inositol 1 3 4 triphosphate 5/6 kinase; Inositol 1; Inositol tetrakisphosphate 1 kinase; Inositol triphosphate 5/6 kinase; Inositol-tetrakisphosphate 1-kinase; Inositol-triphosphate 5/6-kinase; Ins(1 3 4)P(3) 5/6 kinase; Ins(1; ITPK 1; itpk1; ITPK1\_HUMAN; ITRPK 1; ITRPK1; anti-ITPK1 antibody

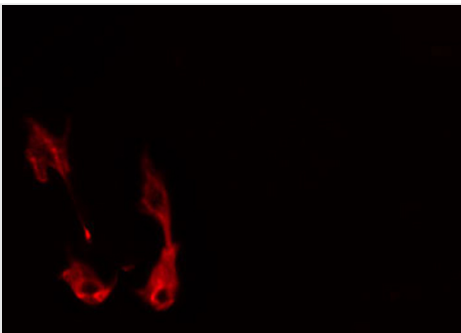
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                      |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                               |
| Reactivity                                      | Human, Mouse                                                                                                                                                                                                                         |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                           |
| Isotype                                         | IgG                                                                                                                                                                                                                                  |
| Specificity                                     | ITPK1 antibody detects endogenous levels of total ITPK1                                                                                                                                                                              |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                        |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                        |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                                                                                               |
| Sequence Length                                 | 414                                                                                                                                                                                                                                  |
| Applicable Applications for anti-ITPK1 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                                                                                                                                         |
| Immunogen                                       | A synthesized peptide                                                                                                                                                                                                                |
| Tissue Specificity                              | Expressed in brain > heart > skeletal muscle = kidney = pancreas = liver = placenta > lung. In brain, it is expressed in cerebellum, cerebral cortex, medulla, spinal cord, occipital lobe, frontal lobe, temporal lobe and putamen. |
| Conjugation                                     | Unconjugated                                                                                                                                                                                                                         |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                    |

IMAGES



**WB (Western Blot)**  
Western blot analysis of extracts from HeLa cells using ITPK1 antibody.



**IF (Immunofluorescence)**  
AAA323968 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ITPK1 antibody | <p>Function: Kinase that can phosphorylate various inositol polyphosphate such as Ins(3, 4, 5, 6)P4 or Ins(1, 3, 4)P3. Phosphorylates Ins(3, 4, 5, 6)P4 at position 1 to form Ins(1, 3, 4, 5, 6)P5. This reaction is thought to have regulatory importance, since Ins(3, 4, 5, 6)P4 is an inhibitor of plasma membrane Ca2+-activated Cl-channels, while Ins(1, 3, 4, 5, 6)P5 is not. Also phosphorylates Ins(1, 3, 4)P3 on O-5 and O-6 to form Ins(1, 3, 4, 6)P4, an essential molecule in the hexakisphosphate (InsP6) pathway. Also acts as an inositol polyphosphate phosphatase that dephosphorylate Ins(1, 3, 4, 5)P4 and Ins(1, 3, 4, 6)P4 to Ins(1, 3, 4)P3, and Ins(1, 3, 4, 5, 6)P5 to Ins(3, 4, 5, 6)P4. May also act as an isomerase that interconverts the inositol tetrakisphosphate isomers Ins(1, 3, 4, 5)P4 and Ins(1, 3, 4, 6)P4 in the presence of ADP and magnesium. Probably acts as the rate-limiting enzyme of the InsP6 pathway. Modifies TNF-alpha-induced apoptosis by interfering with the activation of TNFRSF1A-associated death domain.</p> <p>Subunit Structure: Monomer. Interacts with GPS1/COPS1.</p> <p>Post-translational Modifications: Acetylation by EP300 and CREBBP destabilizes ITPK1, and down-regulates enzymatic activity. Deacetylated by SIRT1.</p> <p>Similarity: Belongs to the ITPK1 family.</p> |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| NCBI GI #                        | 217272844                                     |
| NCBI GeneID                      | 3705                                          |
| NCBI Accession #                 | NP_001136065.1                                |
| NCBI GenBank Nucleotide #        | NM_001142593.2                                |
| UniProt Accession #              | Q13572; Q9BTL6; Q9H2E7                        |
| Molecular Weight                 | Observed: 50 kD<br>Predicted: 46 kDa          |
| NCBI Official Full Name          | inositol-tetrakisphosphate 1-kinase isoform a |
| NCBI Official Synonym Full Names | inositol-tetrakisphosphate 1-kinase           |
| NCBI Official Symbol             | ITPK1                                         |
| NCBI Official Synonym Symbols    | ITRPK1                                        |
| NCBI Protein Information         | inositol-tetrakisphosphate 1-kinase           |
| UniProt Protein Name             | Inositol-tetrakisphosphate 1-kinase           |
| UniProt Gene Name                | ITPK1                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/itpk1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/323968>