

# **Product Name: ITPK1 Rabbit Monoclonal Antibody**

Catalog #: AMRe85720

For research use only.

#### **Summary**

**Description** Recombinant rabbit monoclonal antibody

Host Rabbit
Application WB,IP
Reactivity Human

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Monoclonal
Form Liquid

Concentration

**Storage** Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

**Shipping** Ice bags

**Buffer** Purified antibody in TBS with 0.05% sodium azide,0.05% protective protein and 50% glycerol.

**Purification** Affinity Purification

### **Application**

**Dilution Ratio** WB 1:500-1:1000,IP 1:10-1:20

Molecular Weight Calculated MW: 46 kDa; Observed MW: 46 kDa

# **Antigen Information**

Gene Name ITPK1
Alternative Names ITRPK1
Gene ID 3705.0
SwissProt ID Q13572

**Immunogen** A synthetic peptide of human ITPK1

# **Background**

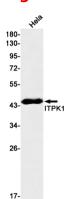
Kinase that can phosphorylate various inositol polyphosphate such as Ins(3,4,5,6)P4 or Ins(1,3,4)P3. Phosphorylates Ins(3,4,5,6)P4 at position 1 to form Ins(1,3,4,5,6)P5. This reaction is thought to have regulatory importance, since Ins(3,4,5,6)P4 is an inhibitor of plasma membrane Ca2+-activated Cl- 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.

#### **Research Area**

### **Image Data**



Western blot analysis of ITPK1 in Hela lysates using ITPK1 antibody.

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