

产品名称: ITPK1 Rabbit Monoclonal Antibody  
产品货号: AMRe85720



## 产品概述 (Summary)

|                        |                                        |
|------------------------|----------------------------------------|
| 产品名称 (Production Name) | ITPK1 Rabbit Monoclonal Antibody       |
| 描述 (Description)       | Recombinant rabbit monoclonal antibody |
| 宿主 (Host)              | Rabbit                                 |
| 应用 (Application)       | WB,IP                                  |
| 种属反应性 (Reactivity)     | Human                                  |

## 产品性能 (Performance)

|                     |                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                 |
| 修饰 (Modification)   | Unmodified                                                                                   |
| 同种型 (Isotype)       | IgG                                                                                          |
| 克隆 (Clonality)      | Monoclonal                                                                                   |
| 形式 (Form)           | Liquid                                                                                       |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.     |
| 储存溶液 (Buffer)       | Purified antibody in TBS with 0.05% sodium azide, 0.05% protective protein and 50% glycerol. |
| 纯化方式 (Purification) | Affinity Purification                                                                        |

## 免疫原信息 (Immunogen)

|                        |                                           |
|------------------------|-------------------------------------------|
| 基因名 (Gene Name)        | ITPK1                                     |
| 别名 (Alternative Names) | ITRPK1                                    |
| 基因 ID (Gene ID)        | 3705.0                                    |
| 蛋白 ID (SwissProt ID)   | Q13572.A synthetic peptide of human ITPK1 |

## 产品应用 (Application)

|                          |                                            |
|--------------------------|--------------------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:1000, IP 1:10-1:20              |
| 蛋白分子量 (Molecular Weight) | Calculated MW: 46 kDa; Observed MW: 46 kDa |

## 研究背景 (Background)

Kinase that can phosphorylate various inositol polyphosphate such as Ins(3,4,5,6)P4 or Ins(1,3,4)P3. Phosphorylates

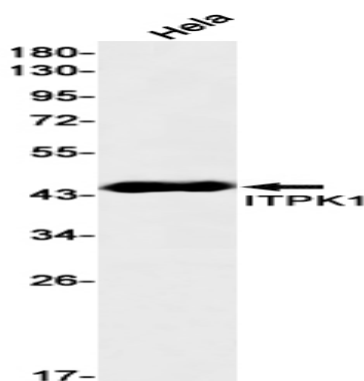
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Ins(3,4,5,6)P<sub>4</sub> at position 1 to form Ins(1,3,4,5,6)P<sub>5</sub>. This reaction is thought to have regulatory importance, since Ins(3,4,5,6)P<sub>4</sub> is an inhibitor of plasma membrane Ca<sup>2+</sup>-activated Cl<sup>-</sup> channels, while Ins(1,3,4,5,6)P<sub>5</sub> is not. Also phosphorylates Ins(1,3,4)P<sub>3</sub> on O-5 and O-6 to form Ins(1,3,4,6)P<sub>4</sub>, an essential molecule in the hexakisphosphate (InsP<sub>6</sub>) pathway. Also acts as an inositol polyphosphate phosphatase that dephosphorylate Ins(1,3,4,5)P<sub>4</sub> and Ins(1,3,4,6)P<sub>4</sub> to Ins(1,3,4)P<sub>3</sub>, and Ins(1,3,4,5,6)P<sub>5</sub> to Ins(3,4,5,6)P<sub>4</sub>. May also act as an isomerase that interconverts the inositol tetrakisphosphate isomers Ins(1,3,4,5)P<sub>4</sub> and Ins(1,3,4,6)P<sub>4</sub> in the presence of ADP and magnesium. Probably acts as the rate-limiting enzyme of the InsP<sub>6</sub> pathway. Modifies TNF- $\alpha$ -induced apoptosis by interfering with the activation of TNFRSF1A-associated death domain.

## 研究领域 (Research Area)

## 图片 (Image Data)



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

## 注意事项 (Note)

For research use only .