# abcam

# Product datasheet

# Anti-ITPK1 antibody [EPR10631] ab175222

Recombinant RabMAb

1 References 6 Images

Overview

**Product name** Anti-ITPK1 antibody [EPR10631]

**Description** Rabbit monoclonal [EPR10631] to ITPK1

**Host species** Rabbit

**Tested applications** Suitable for: IHC-P, WB, IP, Flow Cyt (Intra)

Unsuitable for: ICC/IF

Reacts with: Human Species reactivity

**Immunogen** Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control Fetal brain, fetal heart, HepG2 and Hela lysates; Human brain and liver tissues; Hela cells.

**General notes** This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**® **patents**.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with

these species. Please contact us for more information.

**Properties** 

**Form** Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

pH: 7.20 Storage buffer

Preservative: 0.01% Sodium azide

Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture

supernatant

**Purity** Protein A purified

Clone number Monoclonal EPR10631

**Isotype** IgG

#### **Applications**

The Abpromise guarantee

Our Abpromise guarantee covers the use of ab175222 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/10000 - 1/50000. Predicted molecular weight: 46 kDa.
IP		1/10 - 1/100.
Flow Cyt (Intra)		1/10 - 1/100.  ab172730 - Rabbit monoclonal lgG, is suitable for use as an isotype control with this antibody.

**Application notes** 

Is unsuitable for ICC/IF.

#### **Target**

**Function** 

Kinase that can phosphorylate various inositol polyphosphate such as  $\ln (3,4,5,6)$ P4 or  $\ln (1,3,4)$ P3. Phosphorylates  $\ln (3,4,5,6)$ P4 at position 1 to form  $\ln (1,3,4,5,6)$ P5. This reaction is thought to have regulatory importance, since  $\ln (3,4,5,6)$ P4 is an inhibitor of plasma membrane  $\ln (2+)$ -activated  $\ln (2+)$ -

**Tissue specificity** 

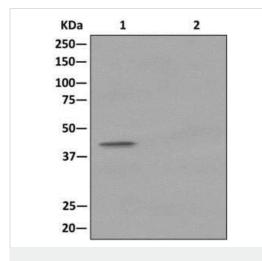
Expressed in brain > heart > skeletal muscle = kidney = pancreas = liver = placenta > lung. In brain, it is expressed in cerebellum, cerebral cortex, medulla, spinal cord, occipital lobe, frontal laboratore lobe, and putamen

lobe, temporal lobe and putamen.

Sequence similarities

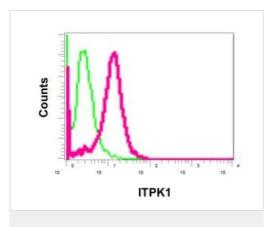
Belongs to the ITPK1 family.
Contains 1 ATP-grasp domain.

### **Images**



Western blot analysis on immunoprecipitation pellet from (1) HeLa cells lysate or (2) 1X PBS (negative control) using ab175222 and HRP-conjugated anti-rabbit lgG preferentially detecting the non-reduced form of rabbit lgG.

Immunoprecipitation - Anti-ITPK1 antibody [EPR10631] (ab175222)



Intracellular flow cytometric analysis of permeabilized HeLa cellslabeling ITPK1 with ab175222 at 1/10 dilution (red) compared to a rabbit IgG negative control (green).

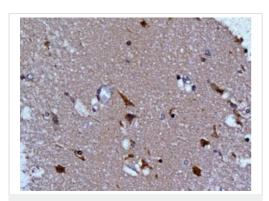




Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-ITPK1 antibody
[EPR10631] (ab175222)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling ITPK1 with ab175222 at 1/50 dilution.

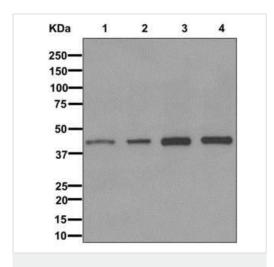
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-ΠΡΚ1 antibody
[EPR10631] (ab175222)

Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling ITPK1 with ab175222 at 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



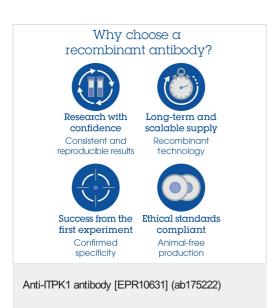
Western blot - Anti-ITPK1 antibody [EPR10631] (ab175222)

**All lanes :** Anti-ITPK1 antibody [EPR10631] (ab175222) at 1/10000 dilution

Lane 1 : Fetal brain lysate
Lane 2 : Fetal liver lysate
Lane 3 : HepG2 cell lysate
Lane 4 : Hela cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 46 kDa



Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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