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Datasheet for ABIN2856549 anti-ITPK1 antibody

3 Images

1 Publication



Overview

Quantity:	100 μL
Target:	ITPK1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ITPK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Immunogen:	Recombinant protein encompassing a sequence within the center region of human ITPK1. The
	exact sequence is proprietary.
lsotype:	lgG
Cross-Reactivity:	Human
Characteristics:	Rabbit Polyclonal antibody to ITPK1 (inositol 1,3,4-triphosphate 5/6 kinase)
	ITPK1 antibody [N3C3]
Purification:	Purified by antigen-affinity chromatography.
Target Details	
Target:	ITPK1
Alternative Name:	inositol-tetrakisphosphate 1-kinase (ITPK1 Products)

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Target Details

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 Ca(2+)-activated Cl(-) channels, while Ins(1,3,4,5,6)P5 is not. Also phosphorylates
	Ins(1,3,4)P3 on 0-5 and 0-6 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 tetraphosphate
	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.

Molecular Weight:	46 kDa
Gene ID:	3705
UniProt:	Q13572

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: A431
Restrictions:	For Research Use only

Handling

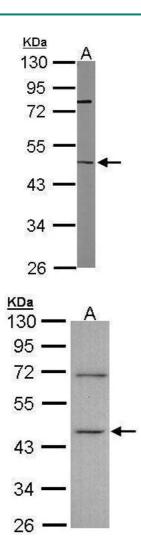
Format:	Liquid
Concentration:	0.53 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage

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Publications

Product cited in:Lin, Kiihl, Suhail, Liu, Chou, Kuang, Lu, Khor, Lin, Bader, Irizarry, Boeke: "Functional dissection of
lysine deacetylases reveals that HDAC1 and p300 regulate AMPK." in: Nature, Vol. 482, Issue
7384, pp. 251-5, (2012) (PubMed).

Images



Western Blotting

Image 1. WB Image Sample (50 ug of whole cell lysate) A: Mouse brain 10% SDS PAGE antibody diluted at 1:1000

Western Blotting

Image 2. WB Image Sample (30 ug of whole cell lysate) A: A431 , 10% SDS PAGE antibody diluted at 1:1000

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Immunofluorescence

Image 3. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using ITPK1, antibody at 1:200 dilution.

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