

Datasheet for ABIN7142002
anti-PDPK1 antibody (AA 294-432)



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2 Images

Overview

Quantity:	100 µg
Target:	PDPK1
Binding Specificity:	AA 294-432
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDPK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1, mitochondrial protein (294-432AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

Target Details

Target:	PDPK1
Alternative Name:	PDK1 (PDPK1 Products)
Background:	Background: Kinase that plays a key role in regulation of glucose and fatty acid metabolism and

Target Details

homeostasis via phosphorylation of the pyruvate dehydrogenase subunits PDHA1 and PDHA2. This inhibits pyruvate dehydrogenase activity, and thereby regulates metabolite flux through the tricarboxylic acid cycle, down-regulates aerobic respiration and inhibits the formation of acetyl-coenzyme A from pyruvate. Plays an important role in cellular responses to hypoxia and is important for cell proliferation under hypoxia. Protects cells against apoptosis in response to hypoxia and oxidative stress.

Aliases: [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 1, mitochondrial antibody, HGNC:8809 antibody, Mitochondrial pyruvate dehydrogenase kinase isoenzyme 1 antibody, PDH kinase 1 antibody, Pdk1 antibody, PDK1_HUMAN antibody, Pyruvate dehydrogenase kinase isoform 1 antibody, Pyruvate dehydrogenase kinase, isoenzyme 1 antibody

UniProt: [Q15118](#)

Pathways: [PI3K-Akt Signaling](#), [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Cell-Cell Junction Organization](#), [Regulation of Cell Size](#), [Skeletal Muscle Fiber Development](#), [CXCR4-mediated Signaling Events](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [VEGFR1 Specific Signals](#)

Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

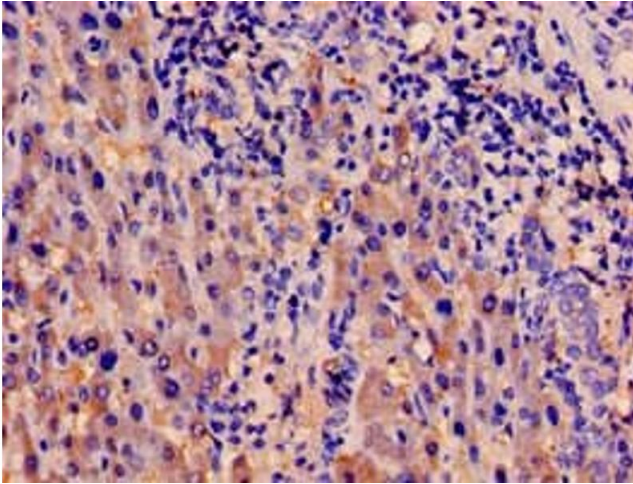
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

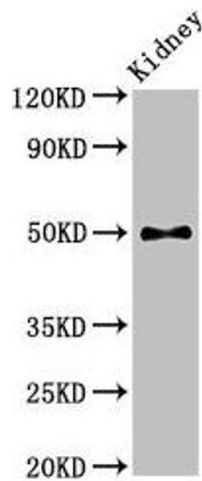
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human liver cancer using ABIN7142002 at dilution of 1:100



Western Blotting

Image 2. Western Blot Positive WB detected in: Mouse kidney tissue All lanes: PDK1 antibody at 2.8 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 50, 52 kDa Observed band size: 50 kDa