

Datasheet for ABIN7142007
anti-PDK3 antibody (AA 137-406)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	PDK3
Binding Specificity:	AA 137-406
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDK3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 3, mitochondrial protein (137-406AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Antigen Affinity Purified

Target Details

Target:	PDK3
Alternative Name:	PDK3 (PDK3 Products)
Background:	Background: Inhibits pyruvate dehydrogenase activity by phosphorylation of the E1 subunit

Target Details

PDHA1, and thereby regulates glucose metabolism and aerobic respiration. Can also phosphorylate PDHA2. Decreases glucose utilization and increases fat metabolism in response to prolonged fasting, and as adaptation to a high-fat diet. Plays a role in glucose homeostasis and in maintaining normal blood glucose levels in function of nutrient levels and under starvation. Plays a role in the generation of reactive oxygen species.

Aliases: [Pyruvate dehydrogenase [lipoamide] kinase isozyme 3 mitochondrial antibody, [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 3 antibody, CMTX6 antibody, GS1-358P8.4 antibody, mitochondrial antibody, PDK3 antibody, PDK3_HUMAN antibody, Pyruvate dehydrogenase kinase isoenzyme 3 antibody, Pyruvate dehydrogenase kinase isoform 3 antibody, Pyruvate dehydrogenase kinase isozyme 3 antibody, Pyruvate dehydrogenase lipoamide kinase isozyme 3 mitochondrial antibody

UniProt: [Q15120](#)

Pathways: [PI3K-Akt Signaling](#), [Carbohydrate Homeostasis](#), [Regulation of Carbohydrate Metabolic Process](#), [Warburg Effect](#)

Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

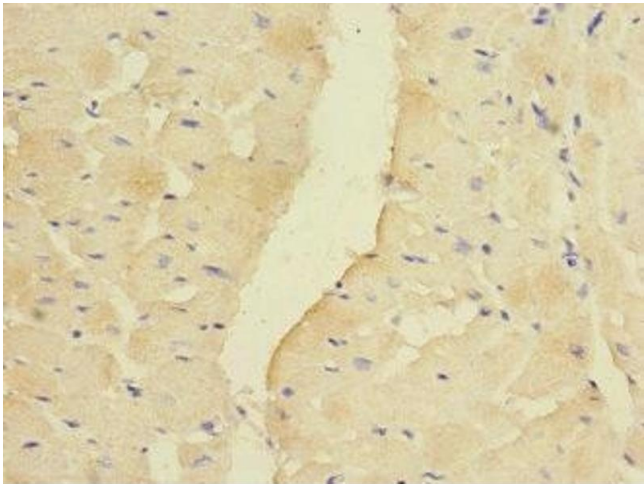
Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

Preservative: Sodium azide

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

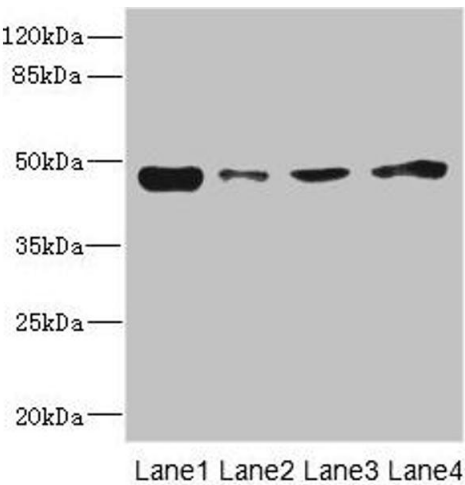
Storage: -20 °C, -80 °C

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



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human heart tissue using ABIN7142007 at dilution of 1:100



Western Blotting

Image 2. Western blot All lanes: PDK3 antibody at 1.6 μ g/mL Lane 1: Mouse kidney tissue Lane 2: RAW264.7 whole cell lysate Lane 3: A431 whole cell lysate Lane 4: HepG2 whole cell lysate Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 47, 49 kDa Observed band size: 47 kDa