

Datasheet for ABIN7142006
anti-PDK2 antibody (AA 128-407)



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3 Images

Overview

Quantity:	100 µL
Target:	PDK2
Binding Specificity:	AA 128-407
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 2, mitochondrial protein (128-407AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Antigen Affinity Purified

Target Details

Target:	PDK2
Alternative Name:	PDK2 (PDK2 Products)
Background:	Background: Kinase that plays a key role in the regulation of glucose and fatty acid metabolism

Target Details

and 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. Inhibition of pyruvate dehydrogenase decreases glucose utilization and increases fat metabolism. Mediates cellular responses to insulin. Plays an important role in maintaining normal blood glucose levels and in metabolic adaptation to nutrient availability. Via its regulation of pyruvate dehydrogenase activity, plays an important role in maintaining normal blood pH and in preventing the accumulation of ketone bodies under starvation. Plays a role in the regulation of cell proliferation and in resistance to apoptosis under oxidative stress. Plays a role in p53/TP53-mediated apoptosis.

Aliases: [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 2 antibody, mitochondrial antibody, PDHK2 antibody, PDK2 antibody, PDK2_HUMAN antibody, Pyruvate dehydrogenase kinase isoform 2 antibody, Pyruvate dehydrogenase kinase, isozyme 2 antibody, Pyruvate dehydrogenase lipoamide kinase isozyme 2, mitochondrial antibody

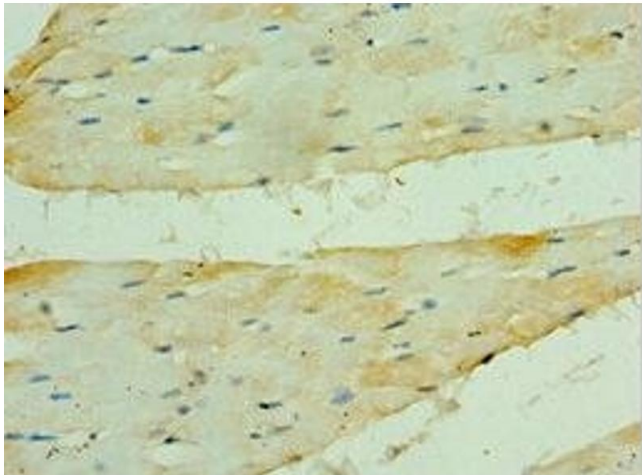
UniProt:	Q15119
Pathways:	PI3K-Akt Signaling , RTK Signaling , Carbohydrate Homeostasis , Regulation of Carbohydrate Metabolic Process , Warburg Effect

Application Details

Application Notes:	Recommended dilution: WB:1:500-1:2000, IHC:1:20-1:200,
Restrictions:	For Research Use only

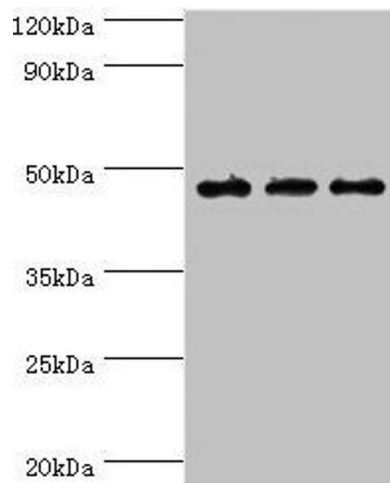
Handling

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.



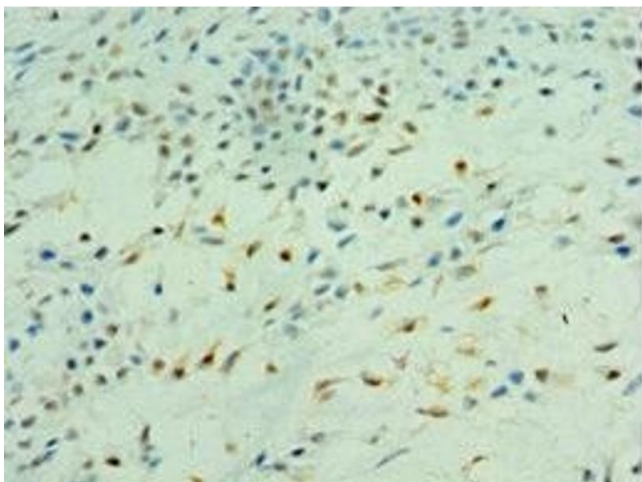
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human skeletal muscle tissue using ABIN7142006 at dilution of 1:100



Western Blotting

Image 2. Western blot All lanes: PDK2 antibody at 6 µg/mL
Lane 1: Mouse heart tissue Lane 2: Hela whole cell lysate
Lane 2: Mouse skeletal muscle tissue Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 47, 39 kDa Observed band size: 47 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human breast cancer using ABIN7142006 at dilution of 1:100