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Anti-PDK1 Antibody

Rabbit polyclonal antibody to PDK1

Catalog # AP59655

Specification

Anti-PDK1 Antibody - Product Information

Application	**WB**
Primary Accession	Q15118
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**49244**

Anti-PDK1 Antibody - Additional Information

Gene ID 5163

Other Names
PDHK1; [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1 mitochondrial; Pyruvate dehydrogenase kinase isoform 1; PDH kinase 1

Target/Specificity
Recognizes endogenous levels of PDK1 protein.

Dilution
WB~~WB (1/500 - 1/1000)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-PDK1 Antibody - Protein Information

Name PDK1

Synonyms PDHK1

Function
Kinase that plays a key role in regulation of glucose and fatty acid metabolism 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. 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.

Cellular Location
Mitochondrion matrix

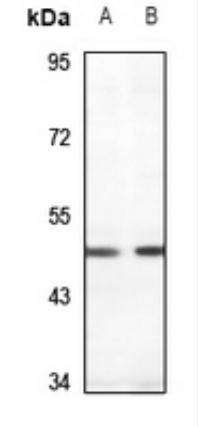
Tissue Location
Expressed predominantly in the heart. Detected at lower levels in liver, skeletal muscle and pancreas

Anti-PDK1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-PDK1 Antibody - Images



Western blot analysis of PDK1 expression in H1792 (A), CT26 (B) whole cell lysates.

Anti-PDK1 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PDK1. The exact sequence is proprietary.