

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 (PubMed:7499431, PubMed:18541534, PubMed:22195962, PubMed:26942675, PubMed:17683942). 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 (PubMed:18541534, PubMed:22195962, PubMed:26942675). Plays an important role in cellular responses to hypoxia and is important for cell proliferation under hypoxia (PubMed:18541534, PubMed:22195962, PubMed:26942675).

Cellular Location

Mitochondrion matrix

Tissue Location

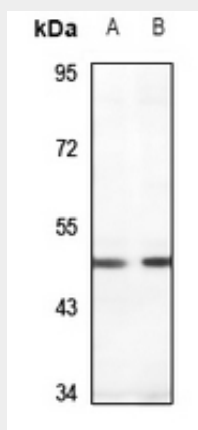
Expressed predominantly in the heart. Detected at lower levels in liver, skeletal muscle and pancreas

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 Cytometry](#)
- [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.