

PDK2 Polyclonal Antibody

Catalog # AP71829

Specification

PDK2 Polyclonal Antibody - Product Information

Application Primary Accession Reactivity Host

WB. IHC-P 015119 Human, Mouse, Rat Rabbit **Polyclonal**

PDK2 Polyclonal Antibody - Additional Information

Gene ID 5164

Other Names

PDK2; PDHK2; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 2; mitochondrial; Pyruvate dehydrogenase kinase isoform 2

Dilution

Clonality

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

PDK2 Polyclonal Antibody - Protein Information

Name PDK2

Synonyms PDHK2

Function

Kinase that plays a key role in the 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. 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.



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Cellular LocationMitochondrion matrix.

Tissue Location

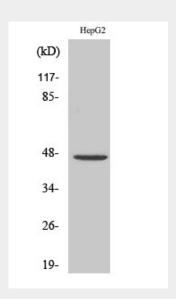
Expressed in many tissues, with the highest level in heart and skeletal muscle, intermediate levels in brain, kidney, pancreas and liver, and low levels in placenta and lung

PDK2 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

PDK2 Polyclonal Antibody - Images



Western Blot analysis of various cells using PDK2 Polyclonal Antibody diluted at 1□500

PDK2 Polyclonal Antibody - Background

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