

**PDK1 Rabbit mAb**  
Catalog # AP77193**Specification**

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**PDK1 Rabbit mAb - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">Q15118</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal Antibody</b>
Calculated MW	<b>49244</b>

**PDK1 Rabbit mAb - Additional Information****Gene ID** 5163**Other Names**

PDK1

**Dilution**

WB~~1/500-1/1000

**Format**

Liquid

**PDK1 Rabbit mAb - 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: <a href="http://www.uniprot.org/citations/7499431" target="\_blank">7499431</a>, PubMed: <a href="http://www.uniprot.org/citations/18541534" target="\_blank">18541534</a>, PubMed: <a href="http://www.uniprot.org/citations/22195962" target="\_blank">22195962</a>, PubMed: <a href="http://www.uniprot.org/citations/26942675" target="\_blank">26942675</a>, PubMed: <a href="http://www.uniprot.org/citations/17683942" target="\_blank">17683942</a>). 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: <a href="http://www.uniprot.org/citations/18541534" target="\_blank">18541534</a>, PubMed: <a href="http://www.uniprot.org/citations/22195962" target="\_blank">22195962</a>, PubMed: <a href="http://www.uniprot.org/citations/26942675" target="\_blank">26942675</a>). Plays an important role in cellular responses to hypoxia and is important for cell proliferation under hypoxia (PubMed: <a href="http://www.uniprot.org/citations/18541534" target="\_blank">18541534</a>, PubMed: <a href="http://www.uniprot.org/citations/22195962" target="\_blank">22195962</a>, PubMed: <a href="http://www.uniprot.org/citations/26942675" target="\_blank">26942675</a>).

href="http://www.uniprot.org/citations/26942675" target="\_blank">26942675</a>).

#### Cellular Location

Mitochondrion matrix

#### Tissue Location

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

#### PDK1 Rabbit mAb - 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](#)

#### PDK1 Rabbit mAb - Images

