

**Mouse Pdk3 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14274b****Specification**

---

**Mouse Pdk3 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q922H2](#)**Mouse Pdk3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 236900**Other Names**

[Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 3, mitochondrial, Pyruvate dehydrogenase kinase isoform 3, Pdk3

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Mouse Pdk3 Antibody (C-term) Blocking Peptide - Protein Information****Name** Pdk3**Function**

Inhibits pyruvate dehydrogenase activity by phosphorylation of the E1 subunit PDHA1, and thereby regulates glucose metabolism and aerobic respiration. Can also phosphorylate PDHA2. Decreases glucose utilization and increases fat metabolism in response to prolonged fasting, and as adaptation to a high-fat diet. Plays a role in glucose homeostasis and in maintaining normal blood glucose levels in function of nutrient levels and under starvation. Plays a role in the generation of reactive oxygen species (By similarity).

**Cellular Location**

Mitochondrion matrix.

**Mouse Pdk3 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**Mouse Pdk3 Antibody (C-term) Blocking Peptide - Images****Mouse Pdk3 Antibody (C-term) Blocking Peptide - Background**

Pdk3 inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism (By similarity).

**Mouse Pdk3 Antibody (C-term) Blocking Peptide - References**

Pagliarini, D.J., et al. Cell 134(1):112-123(2008)Blackshaw, S., et al. PLoS Biol. 2 (9), E247 (2004)  
:Visel, A., et al. Nucleic Acids Res. 32 (DATABASE ISSUE), D552-D556 (2004) :Mootha, V.K., et al.  
Cell 115(5):629-640(2003)