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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

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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)