

PDK3 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7040a**Specification**

PDK3 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q15120](#)**PDK3 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 5165**Other Names**

[Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 3, mitochondrial, Pyruvate dehydrogenase kinase isoform 3, PDK3, PDHK3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7040a](/product/products/AP7040a) was selected from the N-term region of human PDK3 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

PDK3 Antibody (N-term) Blocking Peptide - Protein Information**Name** PDK3**Synonyms** PDHK3**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.

Cellular Location

Mitochondrion matrix.

Tissue Location

Expressed in heart, skeletal muscle, spinal cord, as well as fetal and adult brain.

PDK3 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PDK3 Antibody (N-term) Blocking Peptide - Images**PDK3 Antibody (N-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.

PDK3 Antibody (N-term) Blocking Peptide - References

Baker, J.C., et al., J. Biol. Chem. 275(21):15773-15781 (2000). Gudi, R., et al., J. Biol. Chem. 270(48):28989-28994 (1995).