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PDHA1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9652c

Specification

PDHA1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P08559

PDHA1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 5160

Other Names
Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial, PDHE1-A type I, PDHA1, PHE1A

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.

PDHA1 Antibody (Center) Blocking Peptide - Protein Information

Name PDHA1

Synonyms PHE1A

Function
The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), and thereby links the glycolytic pathway to the tricarboxylic cycle.

Cellular Location
Mitochondrion matrix.

Tissue Location
Ubiquitous.

PDHA1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

PDHA1 Antibody (Center) Blocking Peptide - Images

PDHA1 Antibody (Center) Blocking Peptide - Background

The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 alpha 1 subunit containing the E1 active site, and plays a key role in the function of the PDH complex. Mutations in this gene are associated with pyruvate dehydrogenase E1-alpha deficiency and X-linked Leigh syndrome.

PDHA1 Antibody (Center) Blocking Peptide - References

Glushakova, L.G., et al. Mol. Genet. Metab. 98(3):289-299(2009)Joao Silva, M., et al. Eur. J. Pediatr. 168(1):17-22(2009)Boichard, A., et al. Mol. Genet. Metab. 93(3):323-330(2008)