

**PDHA1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9652c**

**Specification**

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**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<sub>2</sub>, 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)