

### **PDHA1 Antibody (Center)**

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP9652c

# **Specification**

# PDHA1 Antibody (Center) - Product Information

Application WB,E
Primary Accession P08559

Other Accession <u>P26284, P29804, P35486, Q8HXW9, A7MB35</u>,

Q6P948

Reactivity Human

Predicted Zebrafish, Bovine, Monkey, Mouse, Pig, Rat

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 43296
Antigen Region 226-255

# PDHA1 Antibody (Center) - Additional Information

### **Gene ID 5160**

### **Other Names**

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

## Target/Specificity

This PDHA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 226-255 amino acids from the Central region of human PDHA1.

# **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

## **Precautions**

PDHA1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### PDHA1 Antibody (Center) - 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.

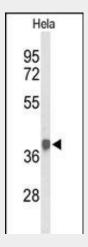
**Tissue Location** Ubiquitous.

## PDHA1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

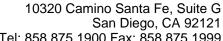
# PDHA1 Antibody (Center) - Images



Western blot analysis of PDHA1 Antibody (Center) (Cat. #AP9652c) in Hela cell line lysates (35ug/lane). PDHA1 (arrow) was detected using the purified Pab.

## PDHA1 Antibody (Center) - 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





Tel: 858.875.1900 Fax: 858.875.1999

this gene are associated with pyruvate dehydrogenase E1-alpha deficiency and X-linked Leigh syndrome.

# **PDHA1 Antibody (Center) - 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)