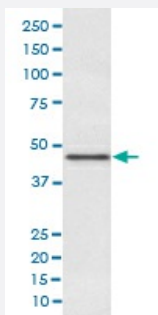


# PDHA1 monoclonal antibody, clone AODI-16

Catalog # MAB20305      Size 100 uL

## Applications



### Western Blot (Cell lysate)

Western blot analysis of HeLa cell lysate with PDHA1 monoclonal antibody.

## Specification

**Product Description** Rabbit monoclonal antibody raised against synthetic peptide of human PDHA1.

**Immunogen** A synthetic peptide corresponding to human PDHA1.

**Host** Rabbit

**Reactivity** Human

**Form** Liquid

**Purification** Affinity purification

**Isotype** IgG

**Recommend Usage**

- Flow Cytometry (1:50)
- Immunocytochemistry (1:50-1:200)
- Immunofluorescence (1:50-1:200)
- Immunohistochemistry (1:50-1:200)
- Immunoprecipitation (1:50)
- Western Blot (1:500-1:2000)
- The optimal working dilution should be determined by the end user.

**Storage Buffer** In PBS, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Storage Instruction**

Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western blot analysis of HeLa cell lysate with PDHA1 monoclonal antibody.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

- Immunocytochemistry

- Immunofluorescence

- Immunoprecipitation

- Flow Cytometry

## Gene Info — PDHA1

**Entrez GeneID**[5160](#)**Protein Accession#**[P08559](#)**Gene Name**

PDHA1

**Gene Alias**

PDHA, PDHCE1A, PHE1A

**Gene Description**

pyruvate dehydrogenase (lipoamide) alpha 1

**Omim ID**[300502](#) [308930](#) [312170](#)**Gene Ontology**[Hyperlink](#)

**Gene Summary**

The pyruvate dehydrogenase complex is a nuclear-encoded mitochondrial matrix multienzyme complex that provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle by catalyzing the irreversible conversion of pyruvate into acetyl-CoA. The PDH complex is composed of multiple copies of 3 enzymes: E1 (PDHA1); dihydrolipoyl transacetylase (DLAT; MIM 608770) (E2; EC 2.3.1.12); and dihydrolipoyl dehydrogenase (DLD; MIM 238331) (E3; EC 1.8.1.4). The E1 enzyme is a heterotetramer of 2 alpha and 2 beta subunits. The E1-alpha subunit contains the E1 active site and plays a key role in the function of the PDH complex (Brown et al., 1994 [PubMed 7853374]).[supplied by OMIM]

**Other Designations**

OTTHUMP00000023015|pyruvate dehydrogenase E1 alpha subunit

## Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Butanoate metabolism](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)
- [Pyruvate metabolism](#)
- [Valine](#)