

## **Product Name: PDHA1 Mouse Monoclonal Antibody**

Catalog #: AMM82964

For research use only.

## **Summary**

**Description** Mouse monoclonal Antibody

**Host** Mouse

**Application** WB,IHC,ICC,ELISA,FC,IP **Reactivity** Human, Mouse, Rat

Conjugation
Unconjugated

Modification
Unmodified

Isotype
Mouse IgG1
Clonality
Monoclonal
Form
Liquid

Concentration 1mg/ml

**Storage** Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

**Shipping** Ice bags

**Buffer** Purified antibody in PBS with 0.05% sodium azide

**Purification** Affinity Purification

## **Application**

WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:50-1:200,ELISA 1:5000-1:20000,FC 1:200-1:400,IP

**Dilution Ratio** 

1:200-1:300

Molecular Weight 43 kDa

# **Antigen Information**

Gene Name PDHA1

Alternative Names PDHA; PDHAD; PHE1A; PDHCE1A

 Gene ID
 5160.0

 SwissProt ID
 P08559

**Immunogen** Purified recombinant fragment of human PDHA1(AA: 241-390) expressed in E. Coli.

## **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

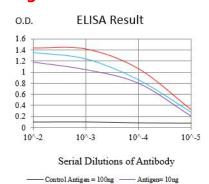
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acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

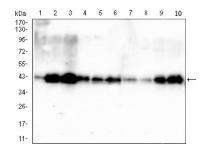
#### Research Area

### **Image Data**



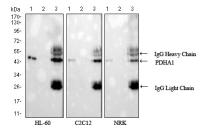
---- Antigen= 100ng

Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Antigen= 50ng

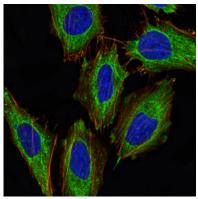
Western blot analysis using PDHA1 mouse mAb against HepG2 (1), HEK293 (2), HL-60 (3), SK-OV-3 (4), PC-3 (5), PANC-1 (6), NRK (7), C2C12 (8), C6 (9) and PC-12 (10) cell lysate.



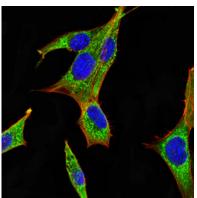
Immunoprecipitation using PDHA1 mouse mAb(dilution: 1/250) against HL-60, C2C12, and NRK cell lysate. Western blot analysis using PDHA1 mouse mAb, antimouse IgG was used as secondary antibody. Lane 1: cell lysate, Lane 2: Normal Mouse IgG instead of PDHA1 mouse mAb IP in cell lysate, Lane 3: PDHA1 mouse mAb IP in cell lysate.

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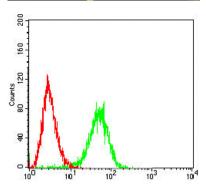




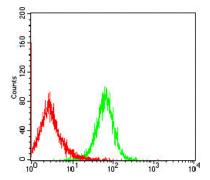
Immunofluorescence analysis of Hela cells using PDHA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.



Immunofluorescence analysis of NIH/3T3 cells using PDHA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

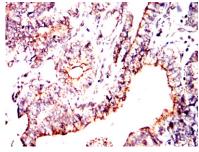


Flow cytometric analysis of Hela cells using PDHA1 mouse mAb (green) and negative control (red).

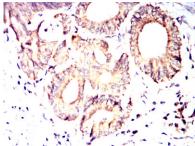


Flow cytometric analysis of Jurkat cells using PDHA1 mouse mAb (green) and negative control (red).





Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using PDHA1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissues using PDHA1 mouse mAb with DAB staining.