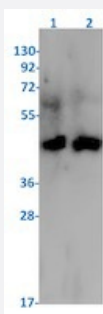


RecomAb™

# PDHA1 recombinant monoclonal antibody, clone R06-1J4

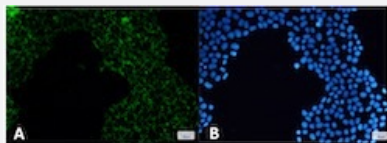
Catalog # RAB01970      Size 100 uL

## Applications



### Western Blot

Western blot analysis of Lane 1: C6, Lane 2: 3T3 lysates with PDHA1 recombinant monoclonal antibody, clone R06-1J4 (Cat # RAB01970).



### Immunocytochemistry

Immunocytochemical staining of HeLa with PDHA1 recombinant monoclonal antibody, clone R06-1J4 (Cat # RAB01970). (A) PDHA1 (green) and (B) DAPI (blue).

## Specification

<b>Product Description</b>	Rabbit recombinant monoclonal antibody raised against human PDHA1.
<b>Antibody Species</b>	Rabbit
<b>Immunogen</b>	Original antibody is raised against a synthetic peptide corresponding to human PDHA1.
<b>Theoretical MW (kDa)</b>	Calculated MW: 43 kD
<b>Reactivity</b>	Human, Mouse, Rat
<b>Form</b>	Liquid

<b>Purification</b>	Affinity purification
<b>Isotype</b>	IgG
<b>Recommend Usage</b>	Immunocytochemistry Immunofluorescence (1:50-1:200) Immunoprecipitation (1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
<b>Storage Instruction</b>	Store at -20 °C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot

Western blot analysis of Lane 1: C6, Lane 2: 3T3 lysates with PDHA1 recombinant monoclonal antibody, clone R06-1J4 (Cat # RAB01970).

- Immunocytochemistry

Immunocytochemical staining of Hela with PDHA1 recombinant monoclonal antibody, clone R06-1J4 (Cat # RAB01970).(A) PDHA1 (green) and (B) DAPI (blue).

- Immunofluorescence

- Immunoprecipitation

## Gene Info — PDHA1

<b>Entrez GeneID</b>	<a href="#">5160</a>
<b>Protein Accession#</b>	<a href="#">P08559</a>
<b>Gene Name</b>	PDHA1
<b>Gene Alias</b>	PDHA, PDHCE1A, PHE1A
<b>Gene Description</b>	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](#)