

Datasheet for ABIN2783236  
**anti-PDHA1 antibody (C-Term)**

## 3 Images

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## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | PDHA1  |
| Binding Specificity: | C-Term   |
| Reactivity:          | Human, Mouse, Rat, Cow, Dog, Pig, Zebrafish (Danio rerio), Rabbit, Guinea Pig, Horse |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This PDHA1 antibody is un-conjugated   |
| Application:         | Western Blotting (WB)  |

## Product Details

|                       |   |
|-----------------------|---|
| Immunogen:            | The immunogen is a synthetic peptide directed towards the C terminal region of human PDHA1                                      |
| Predicted Reactivity: | Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 93%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 93%, Rat: 100%, Zebrafish: 82%  |
| Characteristics:      | This is a rabbit polyclonal antibody against PDHA1. It was validated on Western Blot using a cell lysate as a positive control. |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | PDHA1   |
| Alternative Name: | PDHA1 ( <a href="#">PDHA1 Products</a> )  |
| Background:       | 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 |

## Target Details

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), and dihydrolipoyl dehydrogenase (DLD). 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. 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]. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: PDHA, PDHCE1A, PHE1A

Protein Interaction Partner: HUWE1, SUMO2, UBC, GINS4, DCPS, NCDN, VCL, PPP1R2, MSN, ASL, ADRB2, ITGA4, HNRNPDL, PDHX, SDHA, PDHB, OGDH, GTF2I, DLAT, CUL3, SIRT7, ATG101, WDR20, BABAM1, USP19, PDP1, EIF6, PDK4, PDK3, PDK2, PDK1, PDHA1, DGKE, Protein Size: 390

Molecular Weight: 40 kDa

Gene ID: 5160

NCBI Accession: [NM\\_000284](#), [NP\\_000275](#)

UniProt: [P08559](#)

Pathways: [Warburg Effect](#)

## Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 390 AA

Restrictions: For Research Use only

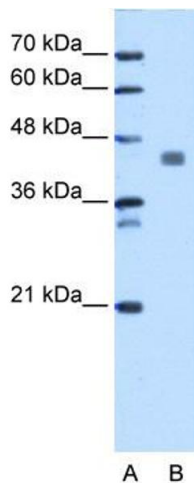
## Handling

Format: Liquid

Handling

|                    |   |
|--------------------|---|
| Concentration:     | Lot specific  |
| Buffer:            | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.                                     |
| Preservative:      | Sodium azide  |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                  |
| Handling Advice:   | Avoid repeated freeze-thaw cycles.  |
| Storage:           | -20 °C  |
| Storage Comment:   | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

Images

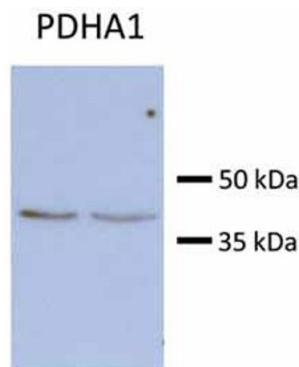


Western Blotting

Image 1. WB Suggested Anti-PDHA1 Antibody Titration:

1.25ug/ml

**Positive Control:** HepG2 cell lysate



Western Blotting

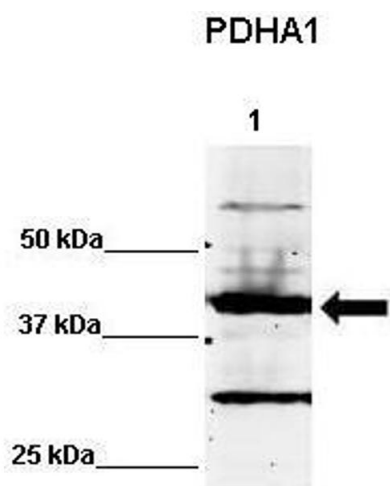
**Image 2. Sample type:**Huh7 HepG2 (50ug)

**Primary Antibody Dilution:** 1:500

**Image Submitted by:** Partha Kasturi

University of Kansas Medical Center

See Immunoblot 2 for more information.



Western Blotting

**Image 3.** WB Suggested Anti-PDHA1 Antibody Positive Control: Lane 1: 60ug human NT2 cell line Primary Antibody Dilution : 1:500 Secondary Antibody : IRDye 800 CW goat anti-rabbit from Li-COR Bioscience Secondary Antibody Dilution : 1:20,000 Submitted by: Dr. Yuzhi Chen, University of Arkansas for Medical Science