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

3 Images

### 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

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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:	<a href="#">NM_000284</a> , <a href="#">NP_000275</a>
UniProt:	<a href="#">P08559</a>
Pathways:	<a href="#">Warburg Effect</a>

## Application Details

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Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 390 AA
Restrictions:	For Research Use only

## Handling

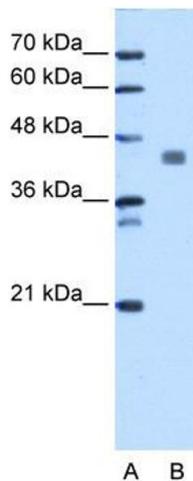
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Format:	Liquid
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## Handling

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

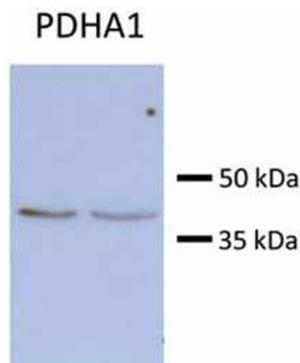


### Western Blotting

#### Image 1. WB Suggested Anti-PDHA1 Antibody Titration:

1.25ug/ml

**Positive Control:** HepG2 cell lysate



### Western Blotting

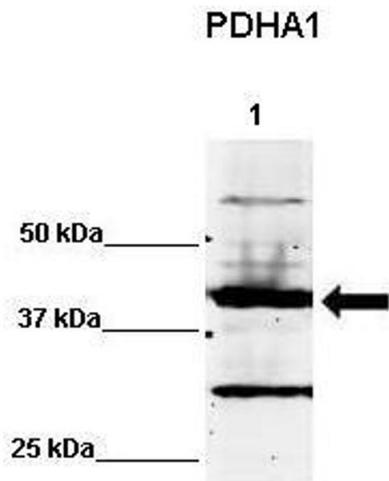
**Image 2. Sample type:** Huh7 HepG2 (50ug)

**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