

# Zebrafish PDHA1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AZb9652c

## Product Information

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|-------------------|---|
| Application       | WB, E   |
| Primary Accession | <a href="#">Q6P948</a>  |
| Other Accession   | <a href="#">P26284</a> , <a href="#">P29804</a> , <a href="#">P35486</a> , <a href="#">Q8HXL9</a> , <a href="#">P08559</a> , <a href="#">A7MB35</a> |
| Reactivity        | Zebrafish   |
| Predicted         | Bovine, Human, Monkey, Mouse, Pig, Rat  |
| Host              | Rabbit  |
| Clonality         | Polyclonal  |
| Isotype           | Rabbit IgG  |
| Clone Names       | RB24303   |
| Calculated MW     | 43741   |

## Additional Information

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|                    |   |
|--------------------|---|
| Gene ID            | 406702  |
| Other Names        | PDHE1-A type I; Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial; PHE1A, PDHA1;pdha1a;pdha1b  |
| Target/Specificity | This Zebrafish PDHA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 233~263 amino acids from the Central region of Zebrafish PDHA1. |
| Dilution           | WB~~1:1000 E~~Use at an assay dependent concentration.  |
| Format             | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.      |
| Storage            | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.   |
| Precautions        | Zebrafish PDHA1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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|----------|---|
| Name     | Q6P948  |
| Function | The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), and thereby links the glycolytic pathway to the tricarboxylic cycle. |

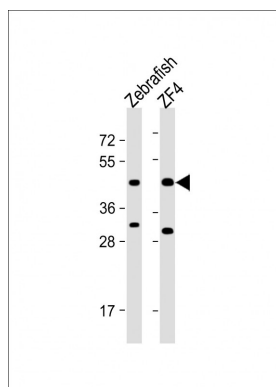
## Background

The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO<sub>2</sub>, and provides the primary link between glycolysis and the tricarboxylic 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.

## References

Glushakova, L.G., et al. Mol. Genet. Metab. 98(3):289-299(2009) Joao Silva, M., et al. Eur. J. Pediatr. 168(1):17-22(2009) Boichard, A., et al. Mol. Genet. Metab. 93(3):323-330(2008)

## Images



All lanes : Anti-PDHA1 Antibody (Center) at 1:1000 dilution Lane 1: Zebrafish lysate Lane 2: ZF4 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.