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Zebrafish PDHA1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AZb9652c

Product Information

Application	WB, E
Primary Accession	Q6P948
Other Accession	P26284, P29804, P35486, Q8HXW9, P08559, A7MB35
Reactivity	Zebrafish
Predicted	Bovine, Human, Monkey, Mouse, Pig, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24303
Calculated MW	43741

Additional Information

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

Name	pdha1a {ECO:0000313|ZFIN:ZDB-GENE-040426-2719}
Function	The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2).

Cellular Location Mitochondrion matrix {ECO:0000256|ARBA:ARBA00004305}

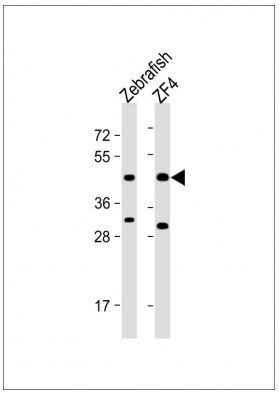
Background

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 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'.