

PDHA1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51420

Product Information

Application	WB
Primary Accession	P08559
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43296

Additional Information

Gene ID	5160
Other Names	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial, PDHE1-A type I, PDHA1, PHE1A
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human PDHA1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C. Stable for 12 months from date of receipt

Protein Information

Name	PDHA1 (HGNC:8806)
Synonyms	PHE1A
Function	Together with PDHB forms the heterotetrameric E1 subunit of the pyruvate dehydrogenase (PDH) complex (PubMed: 17474719 , PubMed: 19081061). The PDH complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO ₂ , and thereby links cytoplasmic glycolysis and the mitochondrial tricarboxylic acid (TCA) cycle (PubMed: 19081061 , PubMed: 7782287). It contains multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and dihydrolipoamide dehydrogenase (E3) (Probable). The E1 subunit catalyzes both the thiamine pyrophosphate (TPP)-dependent decarboxylation of pyruvate and the reductive acetylation of a lipoyl group covalently linked to the lipoyl-bearing domains of E2 (PubMed: 17474719 , PubMed: 19081061 , PubMed: 7782287).

Cellular Location

Mitochondrion matrix {ECO:0000250 | UniProtKB:P26284}

Tissue Location

Ubiquitous.

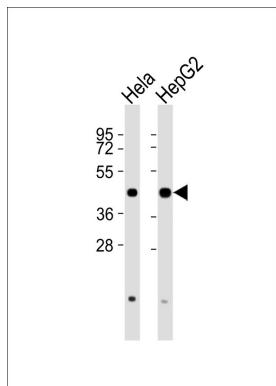
Background

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.

References

Koike K.,et al.Gene 93:307-311(1990).
Ho L.,et al.Proc. Natl. Acad. Sci. U.S.A. 86:5330-5334(1989).
Huh T.L.,et al.Submitted (APR-1990) to the EMBL/GenBank/DDBJ databases.
Dahl H.-H.M.,et al.J. Biol. Chem. 262:7398-7403(1987).
Maragos C.,et al.J. Biol. Chem. 264:12294-12298(1989).

Images



All lanes : Anti-PDHA1 Antibody at 1:1000 dilution Lane 1: HeLa whole cell lysates Lane 2: HepG2 whole cell lysates Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 43 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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