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PDHE1A(S232) Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22387a

Product Information

Application	WB, E
Primary Accession	P08559
Reactivity	Human, Mouse, Rat
Predicted	Human, Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB61811
Calculated MW	43296

Additional Information

Gene ID	5160
Other Names	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial, 1.2.4.1, PDHE1-A type I, PDHA1, PHE1A
Target/Specificity	This PDHE1A(S232) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 206-237 amino acids from the human region of human PDHE1A(S232).
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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	PDHE1A(S232) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

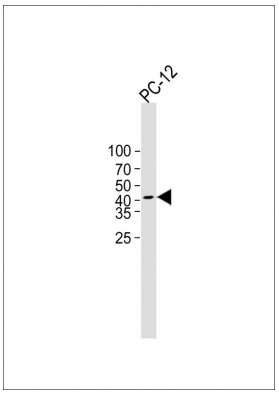
Background

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.

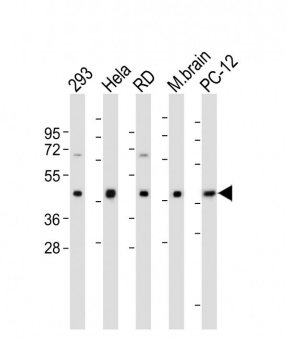
References

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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-PDHE1A(S232) Antibody at 1:2000 dilution + PC-12 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 43 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-PDHE1A(S232) Antibody at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: RD whole cell lysate Lane 4: Mouse brain whole lysate Lane 5: PC-12 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 : 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'.