

Recombinant Anti-PDHA1 Rabbit mAb

Catalog # AP95014

Product Information

Application	WB, IHC, FC, IP, IF/IC
Primary Accession	P08559
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	43296

Additional Information

Gene ID	5160
Other Names	PHE1A; Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial; PDHE1-A type I
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human PDHA1 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IP~~N/A IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

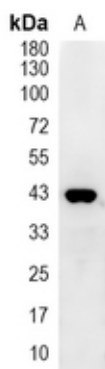
Protein Information

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}

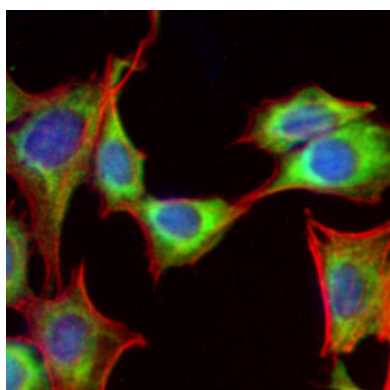
Tissue Location

Ubiquitous.

Images



Western blot analysis of PDHA1 expression in HeLa (A) whole cell lysates. (Predicted band size: 43 kD; Observed band size: 43 kD)



Immunofluorescent analysis of PDHA1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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