

Anti-PDHA1/Pdh E1Alpha Rabbit Monoclonal Antibody

Catalog # ABO13743

Product Information

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	P08559
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-PDHA1/Pdh E1Alpha Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

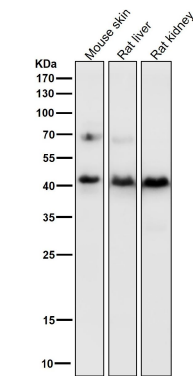
Additional Information

Gene ID	5160
Other Names	Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial, 1.2.4.1, PDHE1-A type I, PDHA1, PHE1A
Calculated MW	43296
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200 IP 1:50 FC 1:50
Subcellular Localization	Mitochondrion matrix.
Tissue Specificity	Ubiquitous.
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: AODI-16
Immunogen	A synthesized peptide derived from human PDHA1
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

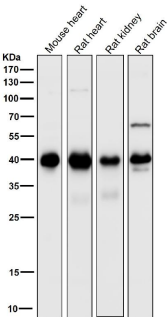
Protein Information

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

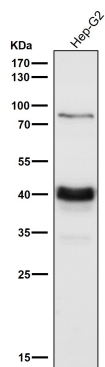


All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.

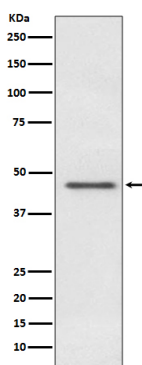


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Western blot analysis of PDHA1 expression in HeLa cell lysate.



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