

Anti-Phospho-PDHA1 (S293) Rabbit Monoclonal Antibody

Catalog # ABO15955

Product Information

Application	WB, IHC, IP
Primary Accession	P08559
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-Phospho-PDHA1 (S293) Rabbit Monoclonal Antibody . Tested in WB, IHC, IP 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 IP 1:50
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: 25P34
Immunogen	A synthesized peptide derived from human Phospho-PDHA1 (S293)
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 CO₂, 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

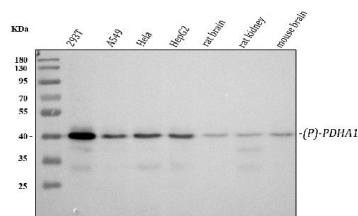


Figure 1. Western blot analysis of PDHA1 using anti-PDHA1 antibody (P01906).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human 293T whole cell lysates,
Lane 2: human A549 whole cell lysates,
Lane 3: human Hela whole cell lysates,
Lane 4: human HepG2 whole cell lysates,
Lane 5: rat brain tissue lysates,
Lane 6: rat kidney tissue lysates,
Lane 7: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-PDHA1 antigen affinity purified monoclonal antibody (Catalog # P01906) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PDHA1 at approximately 43 kDa. The expected band size for PDHA1 is at 43 kDa.

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