

PDHA1 Rabbit mAb

Catalog No: #49389

Package Size: #49389-1 50ul #49389-2 100ul

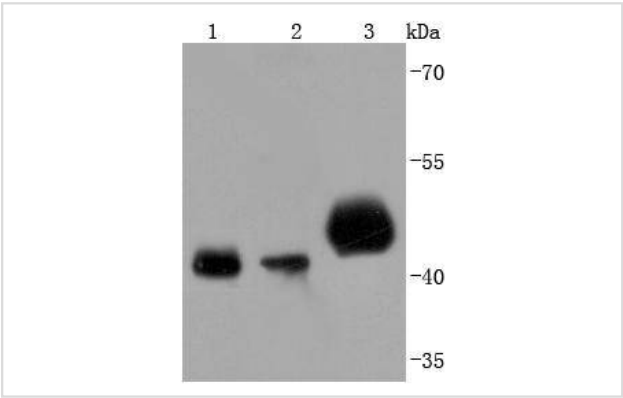
Description

Product Name	PDHA1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	JF996-0
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	ODPA_HUMAN antibody PDH antibody PDHA antibody PDHA1 antibody PDHCE1A antibody PDHE1 A type I antibody PDHE1-A type I antibody PHE1A antibody Pyruvate Dehydrogenase (lipoamide) alpha 1 antibody Pyruvate dehydrogenase complex, E1 alpha polypeptide 1 antibody Pyruvate Dehydrogenase E1 alpha antibody Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial antibody
Accession No.	Swiss-Prot#:P08559
Calculated MW	43 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

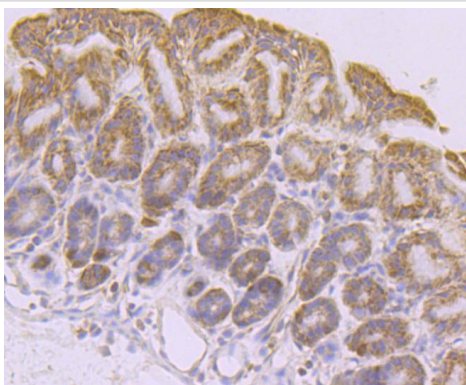
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

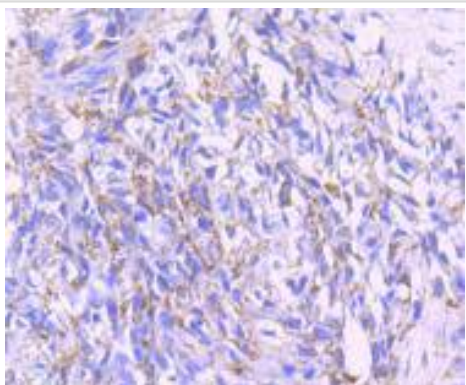
Images



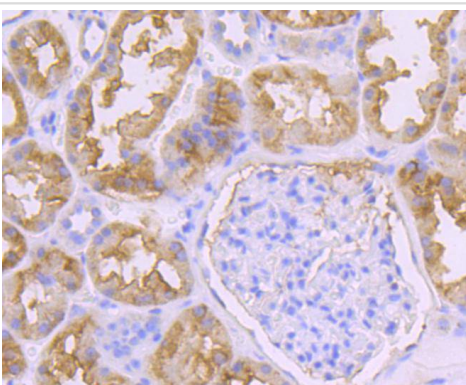
Western blot analysis of PDHA1 on different lysates using anti-PDHA1 antibody at 1/1,000 dilution. Positive control:
Lane 1: 293T Lane 2: A431 Lane 3: Mouse heart



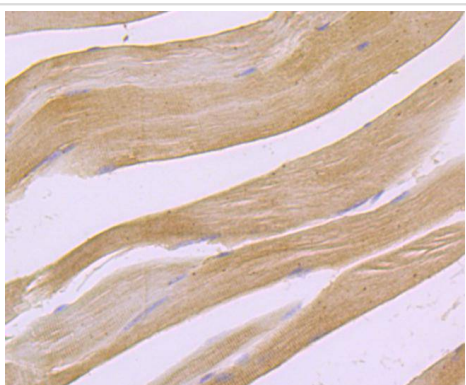
Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-PDHA1 antibody. Counter stained with hematoxylin.



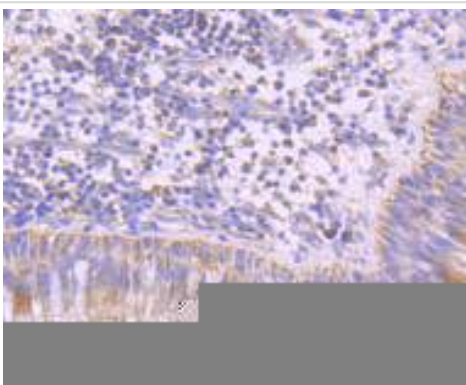
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-PDHA1 antibody. Counter stained with hematoxylin.



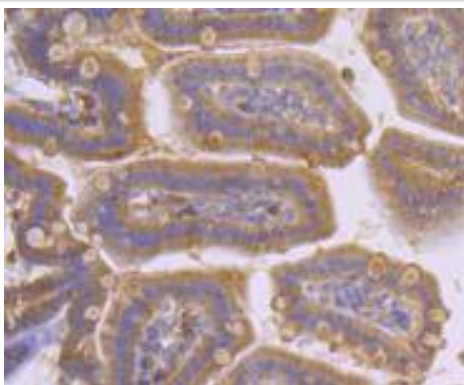
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PDHA1 antibody. Counter stained with hematoxylin.



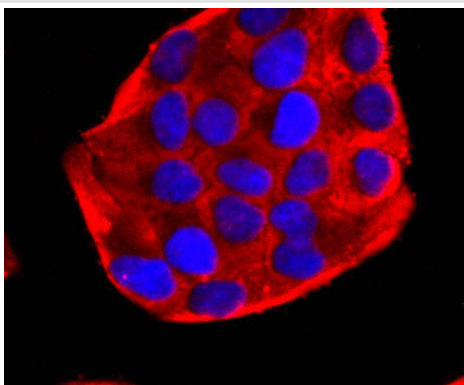
Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue using anti-PDHA1 antibody. Counter stained with hematoxylin.



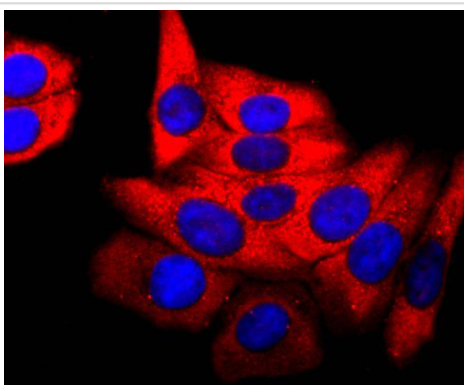
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-PDHA1 antibody. Counter stained with hematoxylin.



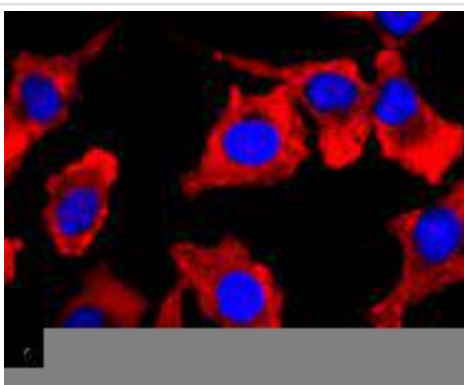
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-PDHA1 antibody. Counter stained with hematoxylin.



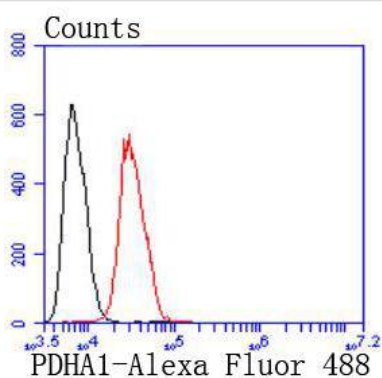
ICC staining PDHA1 in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



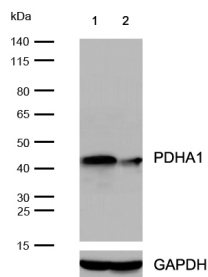
ICC staining PDHA1 in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PDHA1 in SH-SY-5Y cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with PDHA1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody



All lanes : PDHA1 epsilon Rabbit mAb at 1/1k dilution Lane 1 : Wild-type HAP1 cell lysate Lane 2 : PDHA1 knockout HAP1 cell lysate Lysates/proteins at 20 µg per lane.

Background

The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial matrix enzyme complex that functions as the primary link between glycolysis and the tricarboxylic acid (TCA) cycle by catalyzing the irreversible conversion of pyruvate into acetyl-CoA. The E1 enzyme of the PDH complex is made up of a heterotetramer of two α and two β subunits. The E1- α subunit (PDH-E1 α) contains the E1 active site and plays a key role in the function of the PDH complex. The PDH complex is regulated by phosphorylation and dephosphorylation of PDH-E1 α . The gene encoding for PDH-E1 α maps to chromosome Xp22.12, and a 20bp deletion in the last exon of this gene is sufficient to cause PDH deficiency, which causes a broad range of symptoms including the development of seizures, mental retardation and spasticity, as well as intermittent episodes of lactic acidosis associated with cerebellar ataxia.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.