

Product Name: PDHA1 Mouse Monoclonal Antibody
Catalog #: AMM82963



Summary

Production Name	PDHA1 Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,FC,ELISA
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Immunogen

Gene Name	PDHA1
Alternative Names	PDHA; PDHAD; PHE1A; PDHCE1A
Gene ID	5160.0
SwissProt ID	P08559.Purified recombinant fragment of human PDHA1(AA: 241-390) expressed in E. Coli.

Application

Dilution Ratio	WB:1:500-1:2000,IHC:1:200-1:1000,ICC:1:50-1:200,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	43 kDa

Background

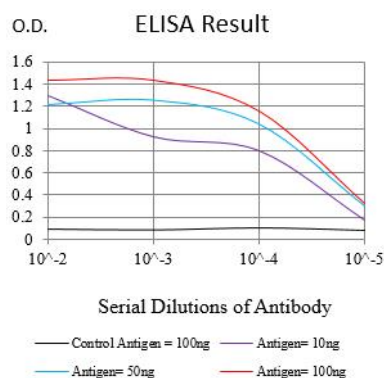
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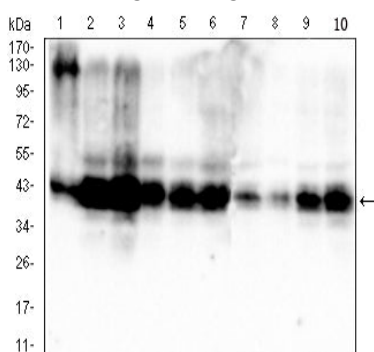
The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO₂, and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 alpha 1 subunit containing the E1 active site, and plays a key role in the function of the PDH complex. Mutations in this gene are associated with pyruvate dehydrogenase E1-alpha deficiency and X-linked Leigh syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Research Area

Image Data

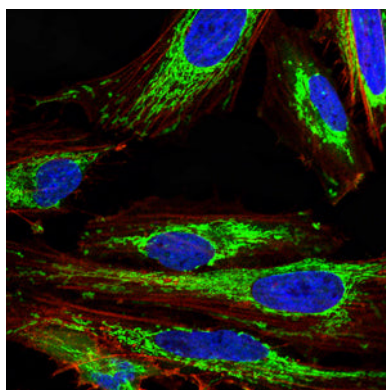


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

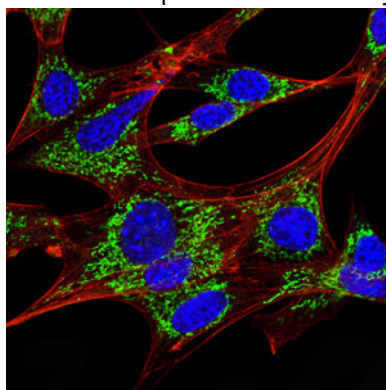


Western blot analysis using PDHA1 mouse mAb against HepG2 (1),Hek293 (2),HL-60 (3),SK-OV-3 (4),PC-3 (5),PANC-1 (6),NRK (7),C2C12 (8), C6 (9), and PC-12 (10) cell lysate.

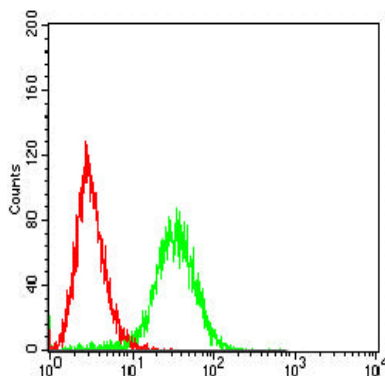
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Immunofluorescence analysis of Hela cells using PDHA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

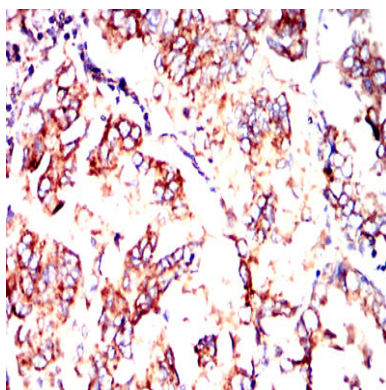


Immunofluorescence analysis of NIH/3T3 cells using PDHA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

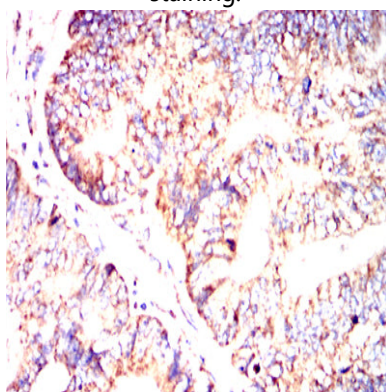


Flow cytometric analysis of Hela cells using PDHA1 mouse mAb (green) and negative control (red).

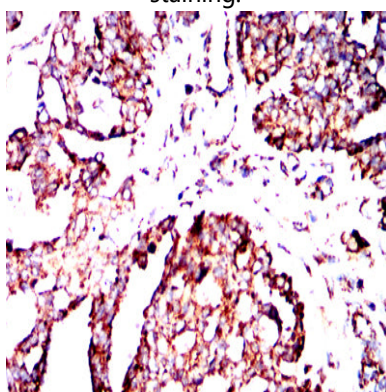
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Immunohistochemical analysis of paraffin-embedded human lung cancer tissues using PDHA1 mouse mAb with DAB staining.

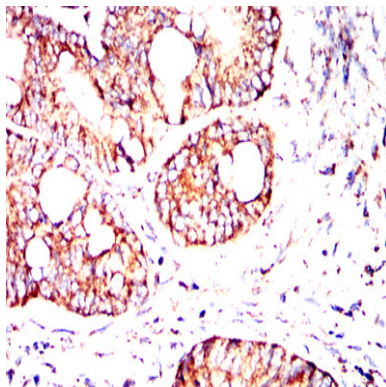


Immunohistochemical analysis of paraffin-embedded human colon cancer tissues using PDHA1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissues using PDHA1 mouse mAb with DAB staining.

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Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using PDHA1 mouse mAb with DAB staining.

Note

For research use only.