abcam

ab168379

Anti-PDHA1 antibody [EPR11098]

Anti-PDHA1 antibody [EPR11098] (ab168379) is a rabbit monoclonal antibody detecting PDHA1 in **Western Blot, Flow Cytometry (Intra), IP, IHC-P, ICC/IF**. Suitable for **Human, Mouse, Rat**.

- KO validated for confirmed specificity
- Biophysical QC for unrivalled batch-batch consistency
- Over 30 publications

Recombinant | RabMAb | KO Validated | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR11098
Purification technique	Affinity purification Protein A
Concentration	Concentration data is not available right now, please try again later Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000 - 1/5000
Notes	-

Species	Rat
Dilution info	1/1000 - 1/5000
Notes	-

Species	Human
Dilution info	1/1000 - 1/5000
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/100 - 1/250
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/100 - 1/250
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Human
Dilution info	1/100 - 1/250
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target data

See full target information PDHA1

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).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-PDHA1 antibody [EPR11098] (ab168379) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Intra), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human, Mouse, Rat samples.

What is the molecular weight of PDHA1?
Anti-PDHA1 [EPR11098] (ab168379) specifically detects a band for PDHA1 (UniProt: P08559) at a molecular weight of 43kDa.

Trusted by the scientific community
Anti-PDHA1 [EPR11098] (ab168379) was first used in a scientific publication in 2013 and has been cited over 30 times in peer-reviewed journals.

Specificity confirmed
The specificity of Anti-PDHA1 antibody [EPR11098] (ab168379) has been confirmed by Western blot testing in PDHA1 Knockout HeLa cells.

Other related products
We have a range of other formats of antibody clone [EPR11098] also available for your convenience: ab168379, Carrier free - ab176835, PE - ab305779, HRP - ab305781, Alkaline Phosphatase - ab308723, Alexa Fluor® 488 - ab309686, Alexa Fluor® 647 - ab310050, Alexa Fluor® 594 - ab310440, Alexa Fluor® 555 - ab311968, Alexa Fluor® 750 - ab321159

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Trial sizes available!
Test your antibody or perform pre-screening before committing to a larger quantity. Sold in 20µl. Discover our selection of trial-size antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	PDHA1 also known as the pyruvate dehydrogenase E1 alpha subunit plays a mechanical role in cellular metabolism. It forms part of the larger pyruvate dehydrogenase (PDH) complex where it serves as a critical catalytic component. PDHA1 is expressed ubiquitously across different tissue types reflecting its fundamental function in energy production. The molecular weight of the PDHA1 protein is approximately 43 kDa. Alternate names for this protein include the PDH E1 component and it partners closely with other components in the PDH complex to facilitate its role.
Biological function summary	PDHA1 engages in the conversion of pyruvate into acetyl-CoA an important step in cellular respiration. This protein is part of the PDH complex which consists of multiple copies of three catalytic and two regulatory subunits. The conversion process is essential for linking glycolysis to the citric acid cycle efficiently channeling energy substrates within the cell. Furthermore the functional activity of PDHA1 is regulated through phosphorylation by the pyruvate dehydrogenase kinases (PDKs) and dephosphorylation by PDH phosphatases.

Pathways

	PDHA1 is integral to the metabolic pathway of cellular respiration and energy production. It enables the transition between glycolysis and the citric acid cycle by facilitating the conversion of pyruvate to acetyl-CoA which enters the citric acid cycle. Related proteins in this pathway include PDHA2 and the regulatory PDKs that modulate PDHA1 activity. These interactions ensure energy metabolism adapts to various cellular conditions influencing energy balance and substrate utilization.
Associated diseases and disorders	Mutations or dysfunctions in PDHA1 can lead to disorders such as pyruvate dehydrogenase deficiency and Leigh syndrome. These conditions result from impaired energy metabolism leading to severe neurological symptoms and overall energy deficits in tissues with high metabolic demands. The link between PDHA1 and diseases highlights the importance of maintaining its function. Additionally altered interaction with proteins involved in phosphorylation such as the PDKs can exacerbate pathogenic conditions by further disbalancing metabolic activities.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

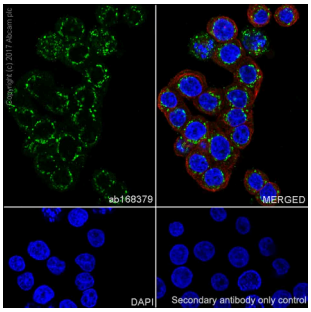
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

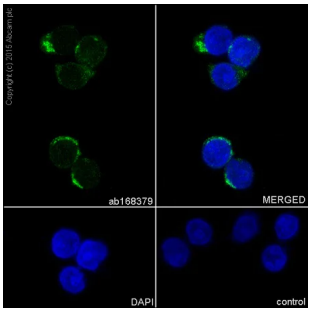
20 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PDHA1 antibody

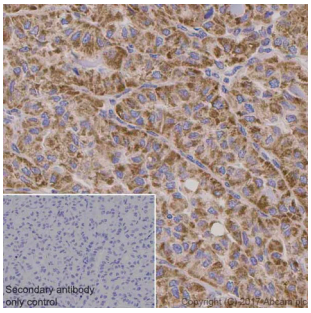
Immunocytochemistry/ Immunofluorescence analysis of HT-29 (Human colorectal adenocarcinoma epithelial cell) cells labeling PDHA1 with Purified ab168379 at 1:100 dilution (3.5 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). ab150077 Goat anti rabbit IgG (Alexa Fluor® 488) was used as the secondary antibody at 1:1000 dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PDHA1 antibody

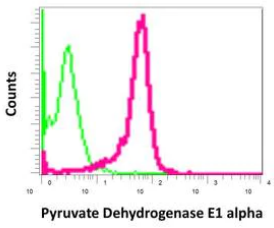
Immunocytochemistry/Immunofluorescence analysis Jurkat (human acute T cell leukemia) labelling PDHA1 with purified ab168379 at 1/500. Cells were fixed with 100% methanol. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody (ab150077). Nuclei counterstained with DAPI (blue).
Control: PBS only



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PDHA1 antibody

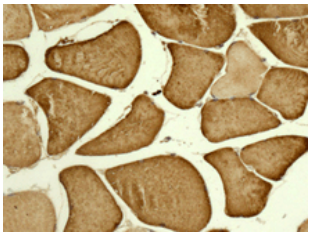
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human thyroid carcinoma tissue sections labeling PDHA1 with Purified ab168379 at 1:200 dilution (1.76 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, pH 9.0. Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Flow Cytometry (Intracellular) - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Flow Cytometry (Intracellular) staining using rabbit Anti-PDHA1 antibody

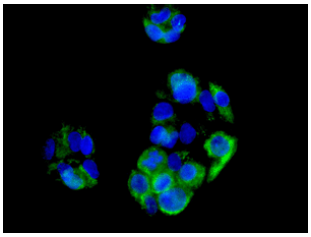
Intracellular flow cytometric analysis of permeabilized Jurkat cells labeling PDHA1 (red) with unpurified ab168379 at 1/10 dilution, or a rabbit IgG (negative) (green).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PDHA1 antibody

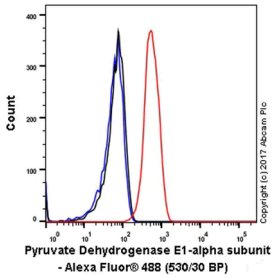
Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling PDHA1 with unpurified ab168379 at 1/100 dilution. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PDHA1 antibody

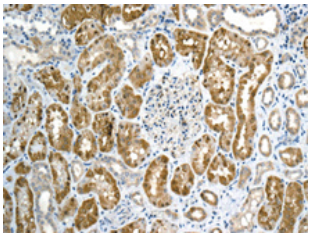
Immunofluorescent analysis of HepG2 cells labeling PDHA1 with unpurified ab168379 at 1/100 dilution.



Flow Cytometry (Intracellular) - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Flow Cytometry (Intracellular) staining using rabbit Anti-PDHA1 antibody

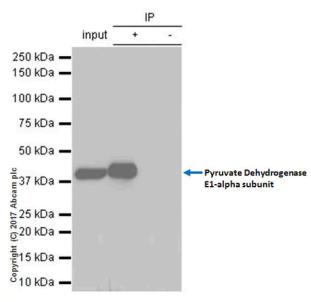
Intracellular Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling PDHA1 with purified ab168379 at 1/40 dilution (10 ug/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilized with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PDHA1 antibody

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling PDHA1 with unpurified ab168379 at 1/100 dilution. Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

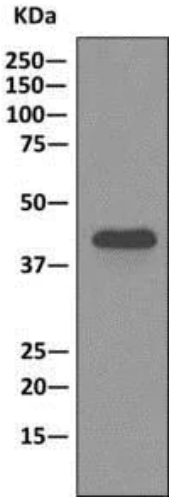


Immunoprecipitation - Anti-PDHA1 antibody [EPR11098] (ab168379)

ab168379 (purified) at 1:20 dilution (2ug) immunoprecipitating PDHA1 in HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate.
Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10ug
Lane 2 (+): ab168379 & HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab168379 in HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate
For western blotting, VeriBlot for IP Detection Reagent (HRP) (ab131366) was used for detection at 1:1000 dilution.
Blocking and diluting buffer: 5% NFDM/TBST.
All lanes:

Immunoprecipitation - Anti-PDHA1 antibody [EPR11098] (ab168379)

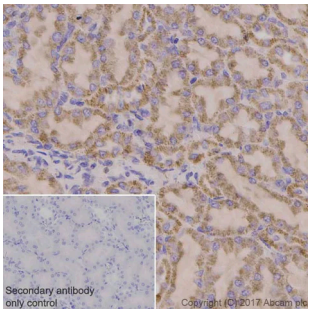
Predicted band size: 43 kDa



Immunoprecipitation - Anti-PDHA1 antibody [EPR11098] (ab168379)

Detection of PDHA1 by Western Blot of Immunprecipitate. 293T cell lysate immunoprecipitated using unpurified ab168379 at 1/10 dilution; HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.
All lanes:
Immunoprecipitation - Anti-PDHA1 antibody [EPR11098] (ab168379)

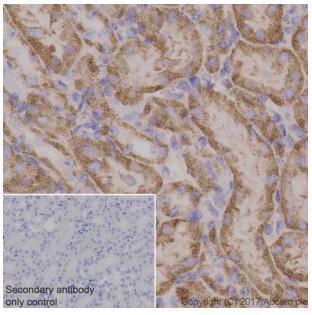
Predicted band size: 43 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PDHA1 antibody

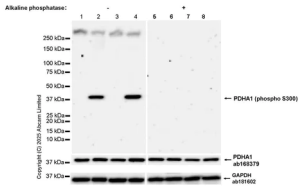
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat kidney tissue sections labeling PDHA1 with Purified ab168379 at 1:200 dilution (1.76 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, pH 9.0. Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-PDHA1 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse kidney tissue sections labeling PDHA1 with Purified ab168379 at 1:200 dilution (1.76 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, pH 9.0. Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Western blot staining using rabbit Anti-PDHA1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The identity of the band higher than 250 kDa is unknown.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-PDHA1 antibody (ab168379) staining at 1/1000 dilution.
All lanes:
Western blot - Anti-PDHA1 (phospho S300) antibody [EPR29824-87] (ab324265) at 1/1000 dilution

Lane 1:
Untreated HeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate (untreated membrane) at 20 µg

Lane 2:
HeLa treated with 100ng/ml Calyculin A for 30 min whole cell lysate (untreated membrane) at 20 µg

Lane 3:
Untreated NIH/3T3 (mouse embryonic fibroblast) whole cell lysate (untreated membrane) at 20 µg

Lane 4:
NIH/3T3 treated with 100ng/ml Calyculin A for 30 min whole cell lysate (untreated membrane) at 20 µg

Lane 5:
Untreated HeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate (alkaline phosphatase treated membrane) at 20 µg

Lane 6:
HeLa treated with 100ng/ml Calyculin A for 30 min whole cell lysate (alkaline phosphatase treated membrane) at 20 µg

Lane 7:
Untreated NIH/3T3 (mouse embryonic fibroblast) whole cell lysate (alkaline phosphatase treated membrane) at 20 µg

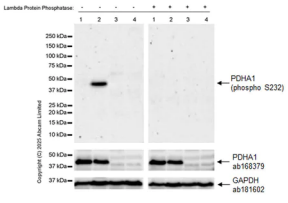
Lane 8:
NIH/3T3 treated with 100ng/ml Calyculin A for 30 min whole cell lysate (alkaline phosphatase treated membrane) at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 43 kDa, 36 kDa

Exposure time: 180s



Western blot - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Western blot staining using rabbit Anti-PDHA1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Performed under reducing conditions.

In Western blot, ab325169 was shown to bind specifically to PDHA1. Target of interest was observed at 43 kDa in induced wild-type A549 cell lysates (lane 2) with no signal observed at this size in induced PDHA1 knockout cell line (lane 4).

Lanes 1-4 on the left untreated membrane with Lambda Protein Phosphatase; Lanes 1-4 on the right treated membrane with Lambda Protein Phosphatase.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-PDHA1 antibody [EPR11098] - (ab168379) staining at 1/1000 dilution.
All lanes:
Western blot - Anti-PDHA1 (phospho S232) antibody [EPR29825-102] (ab325169) at 1/1000 dilution

Lane 1:
Untreated A549 (human lung carcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
A549 treated with 100ng/ml Calyculin A for 30 minutes whole cell lysate at 20 µg

Lane 3:
Untreated PDHA1 knockout A549 whole cell lysate at 20 µg

Lane 4:
PDHA1 knockout A549 treated with 100ng/ml Calyculin A for 30 minutes whole cell lysate at 20 µg

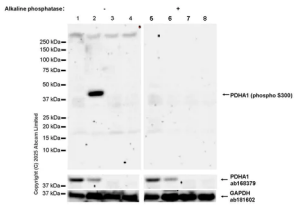
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Performed under reducing conditions.

Observed band size: 43 kDa, 36 kDa

Exposure time: 180s



Western blot - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Western blot staining using rabbit Anti-PDHA1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Performed under reducing conditions.

In Western blot, ab324265 was shown to bind specifically toPDHA1 (phospho S300). Target of interest was observed at 43 kDa in Wild-type A549 treated with 100ng/ml Calyculin A (lane 2), with no signal observed at this size in PDHA1 knockout cell line (lanes 3-4).

The identity of the band higher than 250 kDa is unknown.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

In Western blot, Anti-PDHA1 antibody (ab168379) staining at 1/1000 dilution.

All lanes:
Western blot - Anti-PDHA1 (phospho S300) antibody [EPR29824-87] (ab324265) at 1/1000 dilution

Lane 1:
Untreated Wild-type A549 (human lung carcinoma epithelial cell) whole cell lysate (untreated membrane) at 20 µg

Lane 2:
Wild-type A549 treated with 100ng/ml Calyculin A for 30 min whole cell lysate (untreated membrane) at 20 µg

Lane 3:
Untreated PDHA1 knockout A549 whole cell lysate (untreated membrane) at 20 µg

Lane 4:
PDHA1 knockout A549 treated with 100ng/ml Calyculin A for 30 min whole cell lysate (untreated membrane) at 20 µg

Lane 5:
Untreated Wild-type A549 (human lung carcinoma epithelial cell) whole cell lysate (alkaline phosphatase treated membrane) at 20 µg

Lane 6:
Wild-type A549 treated with 100ng/ml Calyculin A for 30 min whole cell lysate (alkaline phosphatase treated membrane) at 20 µg

Lane 7:
Untreated PDHA1 knockout A549 whole cell lysate (alkaline phosphatase treated membrane) at 20 µg

Lane 8:
PDHA1 knockout A549 treated with 100ng/ml Calyculin A for 30 min whole cell lysate (alkaline phosphatase treated membrane) at 20 µg

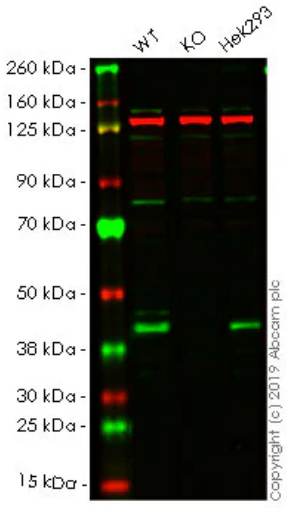
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Performed under reducing conditions.

Observed band size: 43 kDa, 36 kDa

Exposure time: 180s



Western blot - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Western blot staining using rabbit Anti-PDHA1 antibody

Lanes 1 - 3: Merged signal (red and green). Green - ab168379 observed at 43 kDa. Red - loading control, ab130007, observed at 130 kDa.
ab168379 was shown to recognize PDHA1 in wild-type A549 cells as signal was lost at the expected MW in PDHA1 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and PDHA1 knockout samples were subjected to SDS-PAGE. ab168379 and ab130007 (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

All lanes:
Western blot - Anti-PDHA1 antibody [EPR11098] (ab168379) at 1/1000 dilution

Lane 1:
Wild-type A549 whole cell lysate at 20 µg

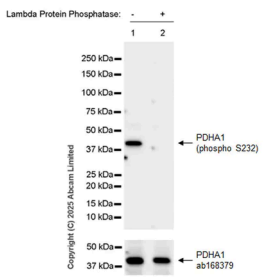
Lane 2:
PDHA1 knockout A549 whole cell lysate at 20 µg

Lane 3:
HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate at 20 µg

Performed under reducing conditions.

Predicted band size: 43 kDa

Observed band size: 43 kDa



Western blot - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Western blot staining using rabbit Anti-PDHA1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

In Western blot, Anti-PDHA1 antibody [EPR11098] - (ab168379) staining at 1/1000 dilution.

All lanes:
Western blot - Anti-PDHA1 (phospho S232) antibody [EPR29825-102] (ab325169) at 1/1000 dilution

Lane 1:
HeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate (untreated membrane) at 20 µg

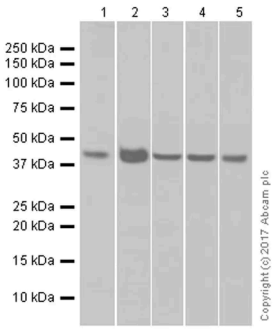
Lane 2:
HeLa (human cervical adenocarcinoma epithelial cell) whole cell lysate (Lambda Protein Phosphatase treated membrane) at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 43 kDa

Exposure time: 26s



Western blot - Anti-PDHA1 antibody [EPR11098] (ab168379)

Blocking and diluting buffer: 5% NFDM/TBST
All lanes:
Western blot - Anti-PDHA1 antibody [EPR11098] (ab168379) at 1/2000 dilution

Lane 1:
HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates at 20 µg

Lane 2:
Mouse brain lysates at 20 µg

Lane 3:
Rat brain lysates at 20 µg

Lane 4:
Mouse kidney lysates at 20 µg

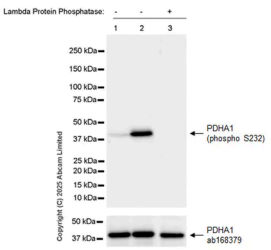
Lane 5:
Rat kidney lysates at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 43 kDa

Observed band size: 43 kDa



Western blot - Anti-PDHA1 antibody [EPR11098] (ab168379)

PDHA1 Western blot staining using rabbit Anti-PDHA1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

In Western blot, Anti-PDHA1 antibody [EPR11098] - (ab168379) staining at 1/1000 dilution.

All lanes:
Western blot - Anti-PDHA1 (phospho S232) antibody [EPR29825-102] (ab325169) at 1/1000 dilution

Lane 1:
Untreated NIH/3T3 (mouse embryonic fibroblast) whole cell lysate (untreated membrane) at 20 µg

Lane 2:
NIH/3T3 treated with 100ng/ml Calyculin A for 30 minutes whole cell lysate (untreated membrane) at 20 µg

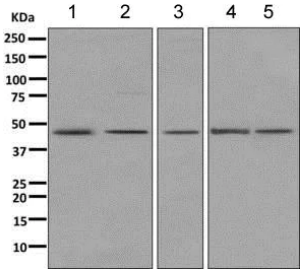
Lane 3:
NIH/3T3 treated with 100ng/ml Calyculin A for 30 minutes whole cell lysate (Lambda Protein Phosphatase treated membrane) at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 43 kDa

Exposure time: 10s



Western blot - Anti-PDHA1 antibody [EPR11098] (ab168379)

All lanes:
Western blot - Anti-PDHA1 antibody [EPR11098] (ab168379) at 1/1000 dilution

Lane 1:
Human fetal kidney lysate at 10 µg

Lane 2:
A549 lysate at 10 µg

Lane 3:
Jurkat lysate at 10 µg

Lane 4:
HepG2 lysate at 10 µg

Lane 5:
HeLa lysate at 10 µg

Secondary

All lanes:
Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 43 kDa

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