


Product datasheet

Anti-MDH2 antibody ab96193

★★★★★ [2 Abreviews](#) [7 References](#) [8 Images](#)

Overview

Product name	Anti-MDH2 antibody
Description	Rabbit polyclonal to MDH2
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF, WB
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Zebrafish 
Immunogen	Recombinant fragment corresponding to Human MDH2 aa 40-289. Database link: P40926
Positive control	293T , A431 , HeLa , HepG2 , mouse brain and heart, rat lung.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab96193 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/1000. EDTA based, pH 8.0 buffer, 15min
ICC/IF		1/100 - 1/1000.
WB	★★★★★ (2)	1/500 - 1/3000. Predicted molecular weight: 36 kDa.

Target

Sequence similarities

Belongs to the LDH/MDH superfamily. MDH type 1 family.

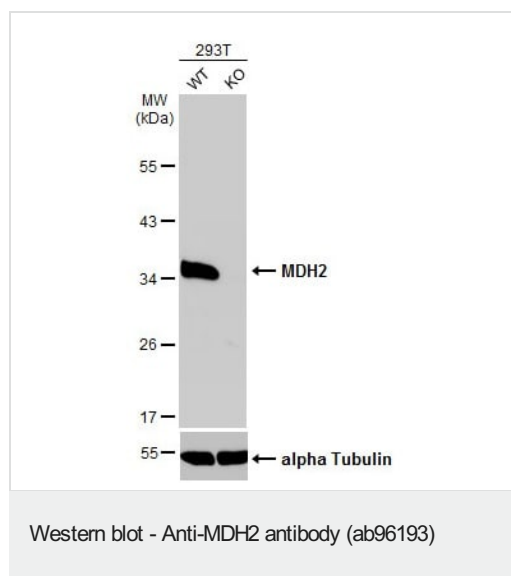
Post-translational modifications

Acetylation is enhanced by up to 67% after treatment either with trichostin A (TSA) or with nicotinamide (NAM) with the appearance of tri- and tetraacetylations. Glucose also increases acetylation by about 60%.

Cellular localization

Mitochondrion matrix.

Images



All lanes :

Lane 1 : Wild-type 293T cell extract

Lane 2 : Knockout 293T cell extract

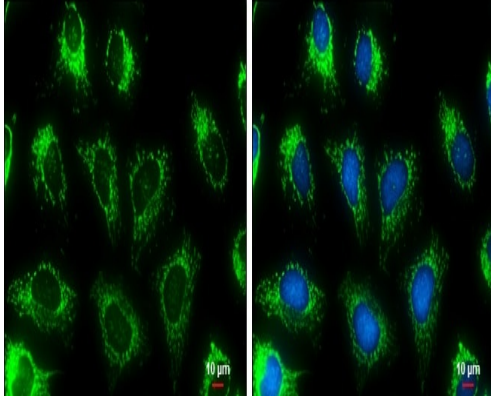
Lysates/proteins at 30 µg per lane.

Secondary

All lanes : HRP-conjugated anti-rabbit IgG

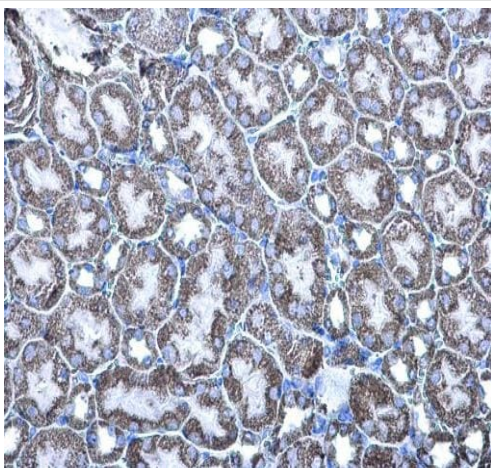
Predicted band size: 36 kDa

10% SDS-PAGE



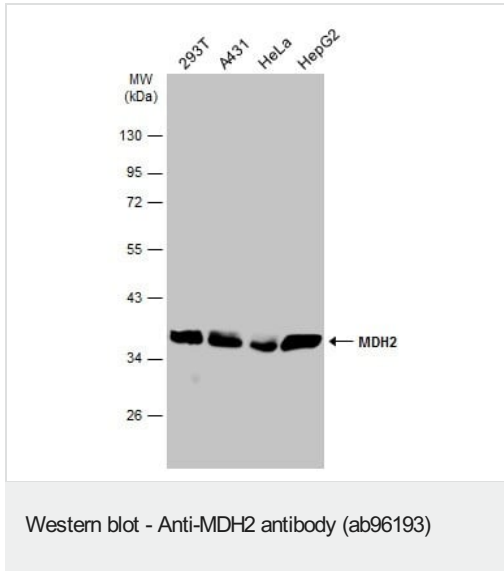
Immunocytochemistry/ Immunofluorescence - Anti-MDH2 antibody (ab96193)

Immunofluorescence staining of ice-cold methanol-fixed (5 minutes) HeLa cells stained for MDH2 with ab96193 at 1:500 dilution. Blue: Hoechst 33342 staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MDH2 antibody (ab96193)

Immunohistochemical analysis of paraffin embedded mouse heart tissue labelling MDH2 with ab96193 antibody at 1/500 dilution at the mitochondria.



All lanes : Anti-MDH2 antibody (ab96193) at 1/1000 dilution

Lane 1 : 293T whole cell lysate

Lane 2 : A431 whole cell lysate

Lane 3 : HeLa whole cell lysate

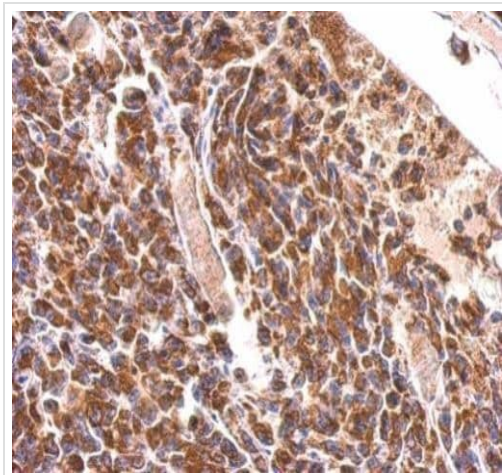
Lane 4 : HepG2 whole cell lysate

Lysates/proteins at 30 µg per lane.

Secondary

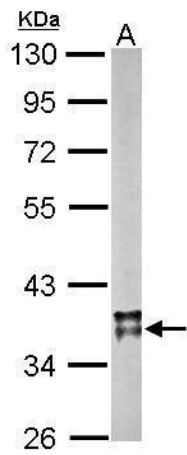
All lanes : HRP-conjugated anti-rabbit IgG

Predicted band size: 36 kDa



Immunohistochemical analysis of paraffin embedded H1299 xenograft tissue labelling MDH2 with ab96193 antibody at 1/500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MDH2 antibody (ab96193)



Western blot - Anti-MDH2 antibody (ab96193)

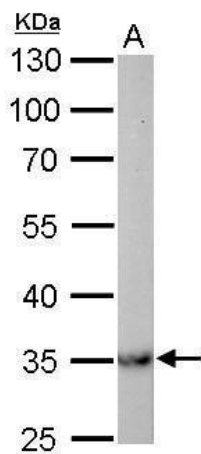
Mouse brain at 20 μ g

Secondary

HRP-conjugated anti-rabbit IgG

Predicted band size: 36 kDa

10% SDS PAGE



Western blot - Anti-MDH2 antibody (ab96193)

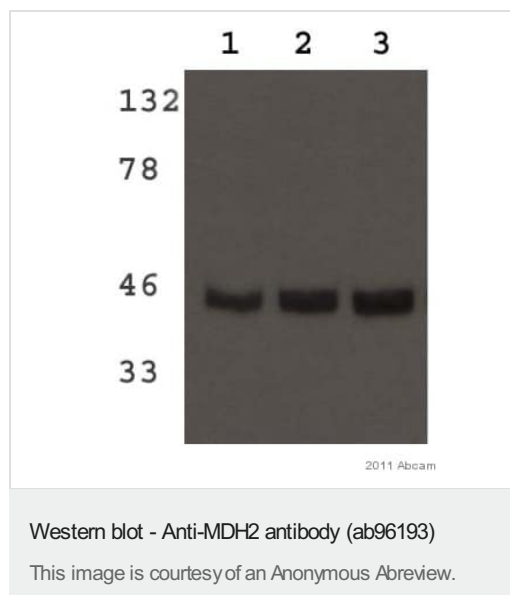
Rat lung at 50 μ g

Secondary

HRP-conjugated anti-rabbit IgG

Predicted band size: 36 kDa

10% SDS-PAGE



All lanes : Anti-MDH2 antibody (ab96193) at 1/1000 dilution

Lane 1 : Mouse C2C12 whole cell lysate

Lane 2 : Mouse C2C12 whole cell lysate on day 1 of differentiation

Lane 3 : Mouse C2C12 whole cell lysate on day 2 of differentiation

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : HRP-conjugated Goat anti-Rabbit IgG at 1/100000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 36 kDa

Observed band size: 46 kDa

Exposure time: 30 seconds

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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