abcam

Product datasheet

Anti-ALDH2 antibody [EPR4494] ab133306

KO VALIDATED Recombinant RabMAb

2 References 3 Images

Overview

Product name	Anti-ALDH2 antibody [EPR4494]
Description	Rabbit monoclonal [EPR4494] to ALDH2
Host species	Rabbit
Specificity	The antibody immunogen has 87% homology with ALDH1A2 (O94788) and ALDH1A1 (P00352). Therefore a cross-reactivity with these proteins is likely.
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,ICC/IF or IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: SW480 and HepG2 cell lysates; Human heart, fetal liver, mouse liver, rat liver, and mouse lung lysates.
General notes	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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal

Clone number	EPR4494
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab133306 in the following tested applications.

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

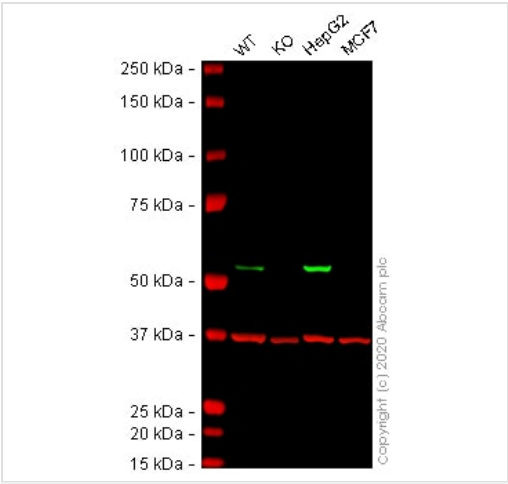
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 56 kDa.

Application notes Is unsuitable for Flow Cyt,ICC/IF or IHC-P.

Target

Pathway	Alcohol metabolism; ethanol degradation; acetate from ethanol: step 2/2.
Sequence similarities	Belongs to the aldehyde dehydrogenase family.
Cellular localization	Mitochondrion matrix.

Images



Western blot - Anti-ALDH2 antibody [EPR4494] (ab133306)

All lanes : Anti-ALDH2 antibody [EPR4494] (ab133306) at 1/1000 dilution

Lane 1 : Wild-type SW480 (Human colorectal adenocarcinoma cell line) whole cell lysate
Lane 2 : ALDH2 knockout SW480 (Human colorectal adenocarcinoma cell line) whole cell lysate
Lane 3 : Hep G2 (Human liver hepatocellular carcinoma cell line) whole cell lysate
Lane 4 : MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

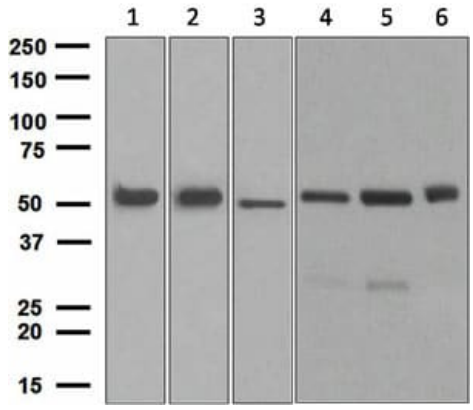
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 56 kDa
Observed band size: 53 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab133306 observed at 53 kDa. Red - loading control, **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab133306 was shown to react with ALDH2 in wild-type SW480 cells in western blot. Loss of signal was observed when ALDH2 knockout sample was used. Wild-type and ALDH2 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk before incubation with ab133306 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 1000 Dilution and a 1 in 20000 dilution respectively. Blots were incubated 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 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-ALDH2 antibody [EPR4494] (ab133306)

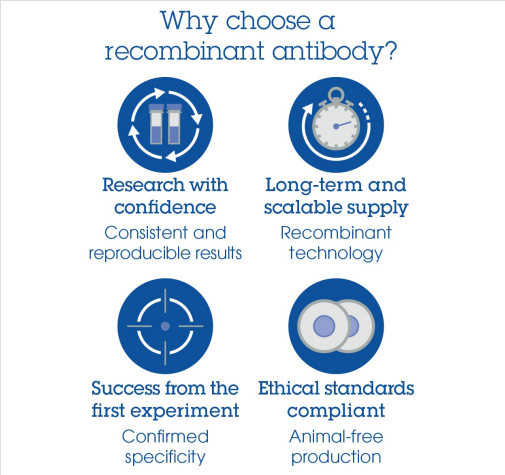
All lanes : Anti-ALDH2 antibody [EPR4494] (ab133306) at 1/1000 dilution

Lane 1 : HepG2 lysates
Lane 2 : Human heart lysates
Lane 3 : Fetal liver lysates
Lane 4 : Mouse liver lysates
Lane 5 : Rat liver lysates
Lane 6 : Mouse lung lysates

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 56 kDa



Anti-ALDH2 antibody [EPR4494] (ab133306)

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