Product name: Anti-ALDH2 antibody [EPR4493]

Description: Rabbit monoclonal [EPR4493] to ALDH2

Host species: Rabbit

Specificity: The antibody immunogen has 82% homology with ALDH1B1 (P30837) and 77% with ALDH1A1 (P00352). BLAST results show for both proteins 6 aa in a row with 100% homology, therefore a cross-reactivity with these proteins is likely.

Tested applications: Suitable for: Flow Cyt, WB, IP, IHC-P, ICC

Species reactivity: Reacts with: Mouse, Rat, Human

Immunogen: Synthetic peptide within Human ALDH2 aa 150-250. The exact sequence is proprietary.


General notes: Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents. This product is a recombinant rabbit monoclonal antibody.

Form: Liquid

Storage instructions: Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

Storage buffer: pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant

Purity: Tissue culture supernatant

Clonality: Monoclonal

Clone number: EPR4493

Isotype: IgG

Applications
Our Abpromise guarantee covers the use of ab108306 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<th>Application</th>
<th>Abreviews</th>
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<td>Flow Cyt</td>
<td>1/20.</td>
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<tr>
<td>WB</td>
<td>1/1000 - 1/10000. Predicted molecular weight: 56 kDa.</td>
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<tr>
<td>IP</td>
<td>1/10 - 1/100.</td>
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<tr>
<td>IHC-P</td>
<td>1/50 - 1/100. Antigen retrieval is recommended.</td>
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<tr>
<td>ICC</td>
<td>1/100 - 1/250.</td>
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**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 [EPR4493] (ab108306)

**All lanes**: Anti-ALDH2 antibody [EPR4493] (ab108306) at 1/1000 dilution

**Lane 1**: HepG2 cell lysate

**Lane 2**: A549 cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size**: 56 kDa
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ALDH2 antibody [EPR4493] (ab108306)

ab108306 at 1/50 dilution, staining ALDH2 in paraffin-embedded Human colon tissue

Flow cytometry analysis of HepG2 (Human hepatocellular carcinoma epithelial cell) cells labeling ALDH2 (red) with ab108306 at a 1/20 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (Black) (ab172730). Blue (unlabeled control) - Cell without incubation with primary antibody and secondary antibody (Blue).

Western blot - Anti-ALDH2 antibody [EPR4493] (ab108306)

All lanes : Anti-ALDH2 antibody [EPR4493] (ab108306) at 1/1000 dilution

Lane 1 : Mouse liver lysate
Lane 2 : Rat liver lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 56 kDa

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