Anti-ALDH2 antibody [EPR4493] ab108306

Overview

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.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer: PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
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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<tr>
<td>Flow Cyt</td>
<td></td>
<td>1/20.</td>
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<tr>
<td>WB</td>
<td></td>
<td>1/1000 - 1/10000. Predicted molecular weight: 56 kDa.</td>
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<tr>
<td>IP</td>
<td></td>
<td>1/10 - 1/100.</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>1/50 - 1/100. Antigen retrieval is recommended.</td>
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<tr>
<td>ICC</td>
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<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**

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ALDH2 antibody [EPR4493] (ab108306)
**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

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**Flow Cytometry** - Anti-ALDH2 antibody [EPR4493] (ab108306)

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).
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

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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