Product datasheet

Anti-ALDH1L1 antibody - Astrocyte Marker ab87117

Overview

Product name: Anti-ALDH1L1 antibody - Astrocyte Marker
Description: Rabbit polyclonal to ALDH1L1 - Astrocyte Marker
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P, ICC/IF, IHC-Fr, ICC
Species reactivity: Reacts with: Mouse, Rat
Predicted to work with: Orangutan
Immunogen: Synthetic peptide conjugated to KLH derived from within residues 300 - 400 of Mouse ALDH1L1. Read Abcam's proprietary immunogen policy
Positive control: WB: Mouse liver, mouse brain and rat brain lysates. IHC-P: Mouse brain tissue. IHC-Fr: Mouse brain-astrocytes tissue.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: pH: 7.40
Preservative: 0.02% Sodium azide
Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab87117 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Tissue specificity**
Highly expressed in liver, pancreas and kidney.

**Sequence similarities**
In the N-terminal section; belongs to the GART family.
In the C-terminal section; belongs to the aldehyde dehydrogenase family. ALDH1L subfamily.
Contains 1 acyl carrier domain.

**Cellular localization**
Cytoplasm.

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**Application | Abreviews | Notes**

| WB | 🌟🌟🌟🌟🌟 | Use a concentration of 1 µg/ml. Detects a band of approximately 100 kDa (predicted molecular weight: 99 kDa). |
| IHC-P | 🌟🌟🌟🌟🌟 | 1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. |
| ICC/IF | 🌟🌟🌟🌟🌟 | Use a concentration of 10 µg/ml. PubMed: 24501362 |
| IHC-Fr | 🌟🌟🌟🌟🌟 | 1/1000. |
| ICC | 🌟🌟🌟🌟🌟 | Use at an assay dependent concentration. |

**Target**

**Tissue specificity**
Highly expressed in liver, pancreas and kidney.

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**Images**

PF-PBS post-fixed lamina frozen sections treated with rNAION for 7 days to induce ischaemia, were analyzed for ALDH1L1 (Red) (ab87117) at 1:1000 dilution. Antigen recovery using citrate buffer was performed. There is extensive dendrimer signal overlap with the astrocyte cytoplasm (arrows).

Immunohistochemistry (Frozen sections) - Anti-ALDH1L1 antibody - Astrocyte Marker (ab87117)  
**All lanes**: Anti-ALDH1L1 antibody - Astrocyte Marker (ab87117) at 1 µg/ml

**Lane 1**: Liver (Mouse) Tissue Lysate
**Lane 2**: Brain (Mouse) Tissue Lysate
**Lane 3**: Brain (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes**: Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size**: 99 kDa
**Observed band size**: 100 kDa

*why is the actual band size different from the predicted?*

**Exposure time**: 4 minutes

IHC-P image of ALDH1L1 staining on Mouse brain tissue section using ab87117. The sections were subjected to heat-mediated antigen retrieval using citric acid (pH 6). The sections were blocked using 1% BSA for 10 minutes at 21°C and then incubated with ab87117 (1/1000 dilution) for 2 hours at 21°C.
ab87117 staining ALDH1L1 in mouse brain-astrocytes tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with 4% paraformaldehyde, incubated with 30% sucrose, embedded in OCT and blocked with 5% BSA for 1 hour at 21°C. Samples were incubated with primary antibody (1/1000 in PBS + 0.3% Triton + 5% BSA) for 16 hours at 4°C. An Alexa Fluor® 555-conjugated donkey anti-rabbit IgG polyclonal (1/1000) was used as the secondary antibody.

Paraffin-embedded rat brain tissue stained for ALDH1L1 using ab87117 at 1/1000 dilution in immunohistochemical analysis. Astrocytes are clearly labeled: red for those attaching to the pia mater, blue for those in the grey matter and green for astrocytes that are intimately associated with blood vessels.

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

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