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.

Target

Images

Application | Abreviews | Notes
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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.

Images

Western blot - 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.
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