**Product datasheet**

**Anti-ALDH1L1 antibody - Astrocyte Marker ab87117**

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**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.

**Images**

**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?
**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ALDH1L1 antibody - Astrocyte Marker (ab87117)**

This image is courtesy of an abreview submitted by Carl Hobbs, King's College London, United Kingdom

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.

**Immunohistochemistry (Frozen sections) - Anti-ALDH1L1 antibody - Astrocyte Marker (ab87117)**

This image is courtesy of an anonymous Abreview

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.

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ALDH1L1 antibody - Astrocyte Marker (ab87117)**

This image is courtesy of an abreview submitted by Mr Carl Hobbs

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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