abcam

Product datasheet

Anti-ALDH5A1/SSADH antibody ab155493

5 Images

Overview

Product name Anti-ALDH5A1/SSADH antibody

Description Rabbit polyclonal to ALDH5A1/SSADH

Host species Rabbit

Tested applications Suitable for: WB, IHC-P, ICC/IF

Species reactivity Reacts with: Mouse, Human

Predicted to work with: Cow

Immunogen Recombinant fragment corresponding to Human ALDH5A1/SSADH aa 85-324.

Database link: P51649

Positive control 293T, A431, H1299, HeLa, HepG2, MOLT4, Raji, Mouse brain whole cell lysate; A431 cells;

A549 xenograft

General notes Keep as a concentrated solution.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer pH: 7.00

Preservative: 0.01% Thimerosal (merthiolate)

Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)

Purity Immunogen affinity purified

Clonality Polyclonal

Isotype IgG

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Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab155493 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 57 kDa.
IHC-P		1/100 - 1/1000. Suggested antigen retrieval using heat mediated 10mM Citrate buffer (pH6.0) or Tris-EDTA buffer (pH8.0).
ICC/IF		1/100 - 1/1000.

Target

Function Catalyzes one step in the degradation of the inhibitory neurotransmitter gamma-aminobutyric acid

(GABA).

Tissue specificity Brain, pancreas, heart, liver, skeletal muscle and kidney. Lower in placenta.

Pathway Amino-acid degradation; 4-aminobutanoate degradation.

Involvement in disease Defects in ALDH5A1 are the cause of succinate semialdehyde dehydrogenase deficiency

(SSADH deficiency) [MIM:271980]. SSADH deficiency is a rare inborn error in the metabolism of 4-aminobutyric acid (GABA) which leads to accumulation of 4-hydroxybutyric acid in physiologic

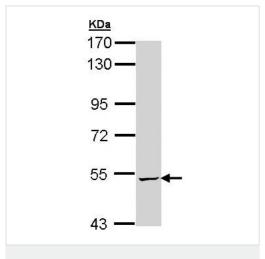
fluids of patients. The disease is characterized by severe ataxia and by mildly retarded

psychomotor development.

Sequence similarities Belongs to the aldehyde dehydrogenase family.

Cellular localization Mitochondrion.

Images

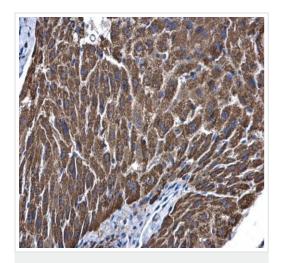


Western blot - Anti-ALDH5A1/SSADH antibody (ab155493)

Anti-ALDH5A1/SSADH antibody (ab155493) at 1/1000 dilution + A431 whole cell lysate at 30 μg

Predicted band size: 57 kDa

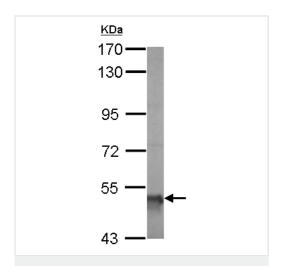
7.5% SDS PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-ALDH5A1/SSADH antibody (ab155493)

Paraffin-embedded mouse liver tissue labeling ALDH5A1/SSADH using ab155493 at 1/500 dilution in immunohistochemical analysis.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 minutes.

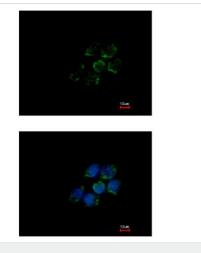


Western blot - Anti-ALDH5A1/SSADH antibody (ab155493)

Anti-ALDH5A1/SSADH antibody (ab155493) at 1/5000 dilution + Mouse brain whole cell lysate at 20 μg

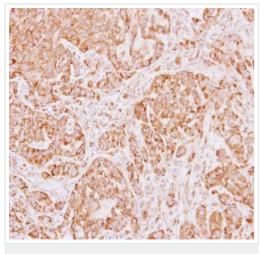
Predicted band size: 57 kDa

7.5% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-ALDH5A1/SSADH antibody (ab155493)

Immunofluorescent analysis of methanol-fixed A431 cells labeling ALDH5A1/SSADH with ab155493 at 1/500 dilution. Lower panel co-stained with Hoescht 33342.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-ALDH5A1/SSADH antibody (ab155493)

Immunohistochemical analysis of paraffin-embedded A549 xenograft labeling ALDH5A1/SSADH with ab155493 at 1/500 dilution.

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