

Aldehyde dehydrogenase 5-A1/SSADH/ALDH5A1 Rabbit mAb

Catalog No.: A24829 **Recombinant**

Basic Information

Observed MW

54kDa

Calculated MW

57kDa

Category

Primary antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC64127

Background

This protein belongs to the aldehyde dehydrogenase family of proteins. This gene encodes a mitochondrial NAD(+)-dependent succinic semialdehyde dehydrogenase. A deficiency of this enzyme, known as 4-hydroxybutyricaciduria, is a rare inborn error in the metabolism of the neurotransmitter 4-aminobutyric acid (GABA). In response to the defect, physiologic fluids from patients accumulate GHB, a compound with numerous neuromodulatory properties. Two transcript variants encoding distinct isoforms have been identified for this gene.

Recommended Dilutions

WB	1:2000 - 1:8000
IHC-P	1:200 - 1:2000
IF/ICC	1:200 - 1:2000
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

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Immunogen Information

Gene ID

7915

Swiss Prot

P51649

Immunogen

Recombinant Protein corresponding to a sequence within amino acids 777-976 of human Aldehyde dehydrogenase 5-A1/SSADH/ALDH5A1(NP_001071.1).

Synonyms

SSDH; SSADH; Aldehyde dehydrogenase 5-A1/SSADH/ALDH5A1?

Product Information

Source

Rabbit

Isotype

IgG

Purification

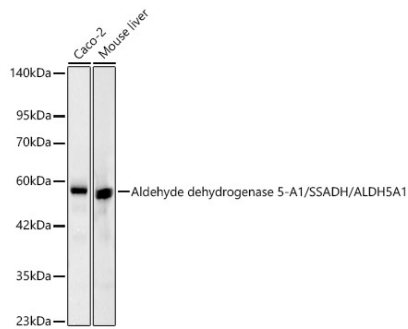
Affinity purification

Storage

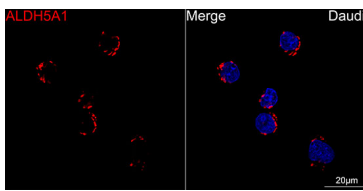
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

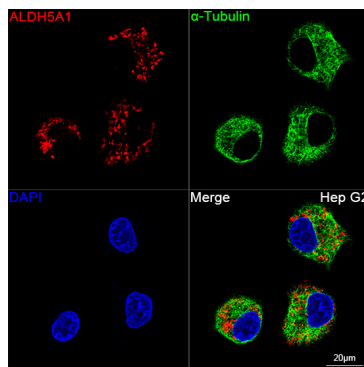
Validation Data



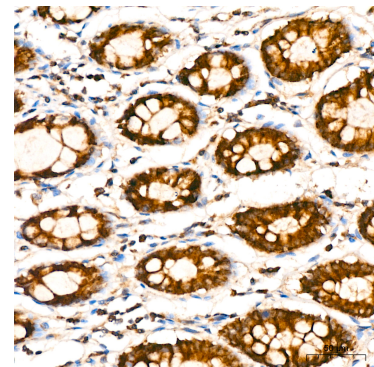
Western blot analysis of various lysates, using Aldehyde dehydrogenase 5-A1/SSADH/ALDH5A1 Rabbit mAb (A24829) at 1:2000 dilution.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.
 Detection: ECL Basic Kit (RM00020).
 Exposure time: 20s.



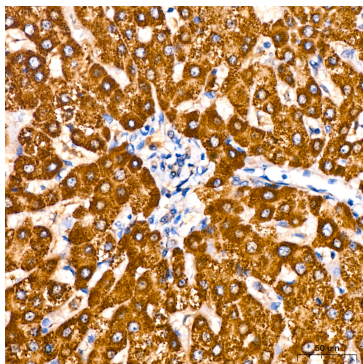
Confocal imaging of Daudi cells using Aldehyde dehydrogenase 5-A1/SSADH/ALDH5A1 Rabbit mAb (A24829, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (blue). Objective: 100x.



Confocal imaging of Hep G2 cells using Aldehyde dehydrogenase 5-A1/SSADH/ALDH5A1 Rabbit mAb (A24829, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Aldehyde dehydrogenase 5-A1/SSADH/ALDH5A1 Rabbit mAb (A24829) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver tissue using Aldehyde dehydrogenase 5-A1/SSADH/ALDH5A1 Rabbit mAb (A24829) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.