Datasheet for ABIN2855041

anti-ALDH2 antibody (Center)

7 Images

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Overview

Quantity:	100 µL
Target:	ALDH2
Binding Specificity:	Center
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALDH2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human ALDH2. The exact sequence is proprietary.
Isotype:	IgG
Characteristics:	Rabbit Polyclonal antibody to ALDH2 (aldehyde dehydrogenase 2 family (mitochondrial)) ALDH2 antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	ALDH2
Alternative Name:	ALDH2 (ALDH2 Products)

Target Details

Background:	This protein belongs to the aldehyde dehydrogenase family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of this enzyme, cytosolic and mitochondrial, can be distinguished by their electrophoretic mobilities, kinetic properties, and subcellular localizations. Most Caucasians have two major isozymes, while approximately 50 % of Orientals have only the cytosolic isozyme, missing the mitochondrial isozyme. A remarkably higher frequency of acute alcohol intoxication among Orientals than among Caucasians could be related to the absence of the mitochondrial isozyme. This gene encodes a mitochondrial isoform, which has a low Km for acetaldehydes, and is localized in mitochondrial matrix. Cellular Localization: Mitochondrion matrix
Molecular Weight:	56 kDa
Gene ID:	217

Application Details

Application Notes:	Suggested dilution Reference ELISA 1:1000-1:10000* ICC/IF 1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceELISA1:1000-1:10000* ICC/IF1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections)1:100-1:1000* Western blot1:500-1:3000*
Comment:	Positive Control: H1299 , GL261 , C8D30 , BCL-1 , Raw264.7
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.23 mg/mL
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

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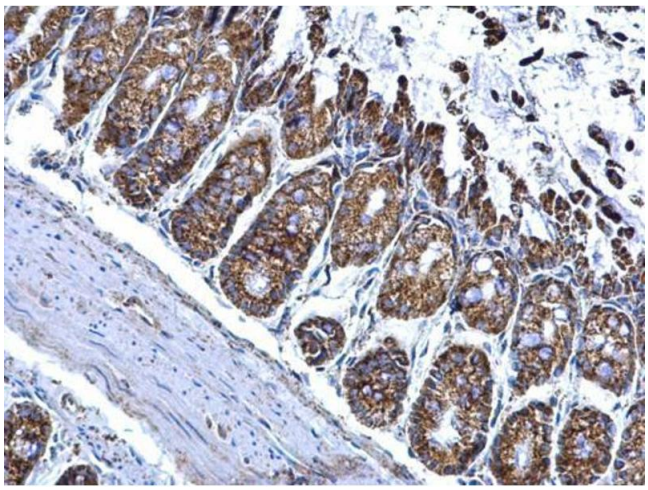
Handling

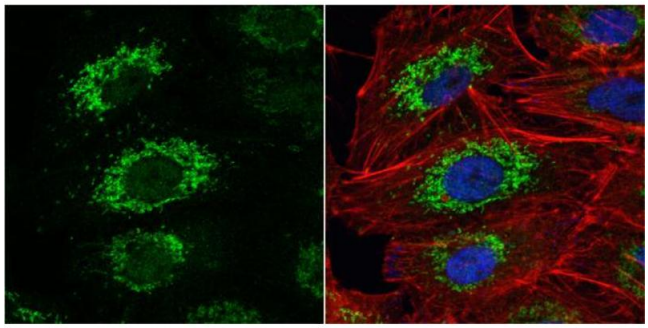
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Validation report #104235 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



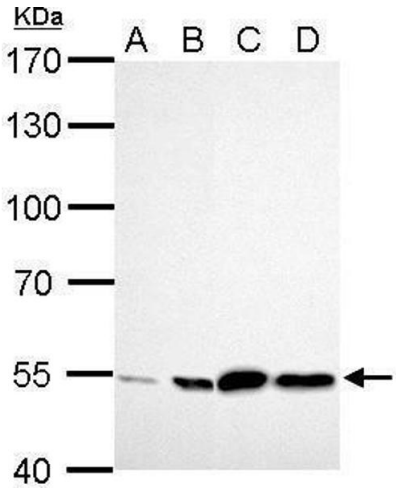
Immunohistochemistry

Image 1. IHC-P Image ALDH2 antibody detects ALDH2 protein at mitochondria on mouse colon by immunohistochemical analysis. Sample: Paraffin-embedded mouse colon. ALDH2 antibody , dilution: 1:500.



Immunofluorescence

Image 2. ICC/IF Image ALDH2 antibody detects ALDH2 protein at mitochondria by immunofluorescent analysis. Sample: A549 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: ALDH2 protein stained by ALDH2 antibody , diluted at 1:500. Red: phalloidin, a cytoskeleton marker, stained by phalloidin (invitrogen, A12380) diluted at 1:200. Blue: Hoechst 33342 staining.



Western Blotting

Image 3. WB Image ALDH2 antibody detects ALDH2 protein by Western blot analysis. A. 30 µg GL261 whole cell lysate/extract B. 30 µg C8D30 whole cell lysate/extract C. 30 µg BCL-1 whole cell lysae/extract D. 30 µg Raw264.7 whole cell lysate/extract 7.5 % SDS-PAGE ALDH2 antibody , dilution: 1:1000

Please check the product details page for more images. Overall 7 images are available for ABIN2855041.