

## ALDH2 Polyclonal antibody

Catalog Number: 15310-1-AP

Featured Product

45 Publications

## Basic Information

<b>Catalog Number:</b> 15310-1-AP	<b>GenBank Accession Number:</b> BC002967	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 350 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 217	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF 1:500-1:2000
<b>Source:</b> Rabbit	<b>Full Name:</b> aldehyde dehydrogenase 2 family (mitochondrial)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 56 kDa	
<b>Immunogen Catalog Number:</b> AG7452	<b>Observed MW:</b> 50-55 kDa	

## Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Cited Applications:**  
CoIP, IF, IHC, IP, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, rat, mouse, zebrafish, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Positive Controls:

**WB :** K-562 cells, HEK-293 cells, human heart tissue, mouse testis tissue, rat testis tissue, HepG2 cells, HuH-7 cells, mouse kidney tissue, mouse liver tissue, rat kidney tissue, rat liver tissue

**IP :** HepG2 cells,

**IHC :** human liver tissue,

**IF :** A549 cells,

## Background Information

Acetaldehyde dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. It mediates NADP<sup>+</sup>-dependent oxidation of aldehydes into acids during detoxification of alcohol-derived acetaldehyde; lipid peroxidation; and metabolism of corticosteroids, biogenic amines and neurotransmitters. Genetic variation in ALDH2 is responsible for individual differences in responses to drinking alcohol. Thus, the absence of this enzyme is linked to alcohol intolerance and a reduced risk for alcoholism-related liver disease.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yusuke Amanuma	26374466	Sci Rep	WB
Xiaojuan Chao	34486131	Alcohol Clin Exp Res	WB
Shanshan Zhong	30375985	J Clin Invest	WB,IP,IF

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

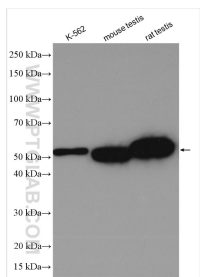
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

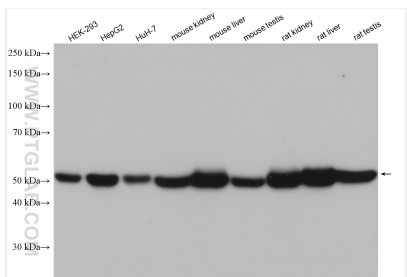
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

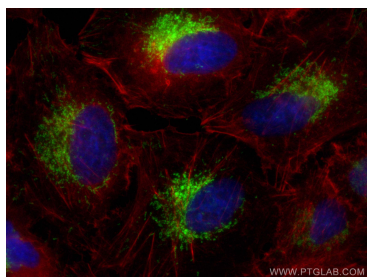
Selected Validation Data



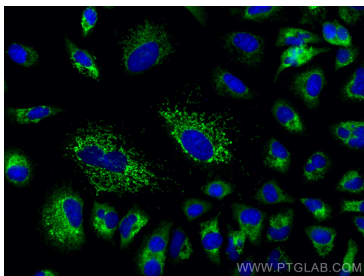
Various lysates were subjected to SDS PAGE followed by western blot with 15310-1-AP (ALDH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



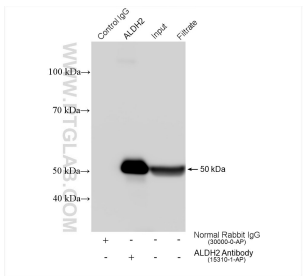
Various lysates were subjected to SDS PAGE followed by western blot with 15310-1-AP (ALDH2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



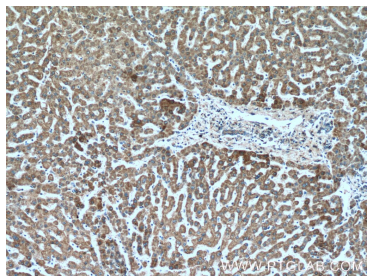
Immunofluorescent analysis of (4% PFA) fixed A549 cells using ALDH2 antibody (15310-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



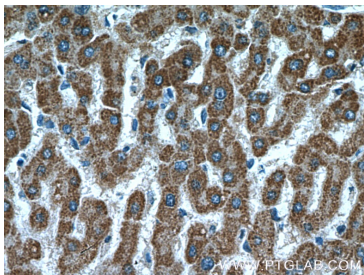
Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using ALDH2 antibody (15310-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



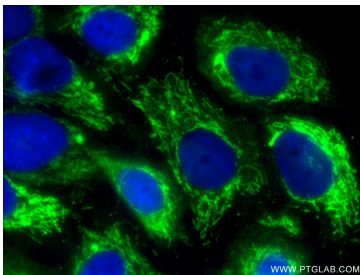
IP result of anti-ALDH2(IP:15310-1-AP, 4ug; Detection:15310-1-AP 1:8000) with HepG2 cells lysate 2040 ug.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15310-1-AP (ALDH2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 15310-1-AP (ALDH2 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using 15310-1-AP (ALDH2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).