For Research Use Only

ALDH2 Polyclonal antibody

Catalog Number: 15310-1-AP

Featured Product 58 Publications



Basic Information

Catalog Number:

15310-1-AP

Rabbit

AG7452

GenBank Accession Number:

BC002967

GeneID (NCBI):

Size: 150ul, Concentration: 650 ug/ml by

Nanodrop:

UNIPROT ID: P05091 Full Name:

Isotype: aldehyde dehydrogenase 2 family

(mitochondrial) IgG Immunogen Catalog Number: Calculated MW:

Observed MW:

50-55 kDa

56 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions: 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/ICC 1:500-1:1000

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications: WB, IHC, IF, IP, CoIP Species Specificity: human, mouse, rat Cited Species:

human, mouse, rat, pig, zebrafish

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, HepG2 cells, HuH-7 cells, mouse kidney tissue, mouse liver tisue, mouse testis tissue, rat kidney tissue, rat liver tissue, rat testis

tissue

IP: HepG2 cells,

IHC: human liver tissue, IF/ICC: A549 cells,

Background Information

Acetaldehyde dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. It mediates NADP+-dependent oxidation of aldehydes into acids during detoxification of alcoholderived 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.

W: ptglab.com

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

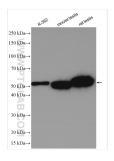
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

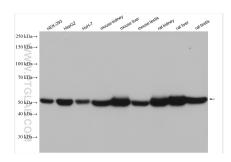
E: proteintech@ptglab.com

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

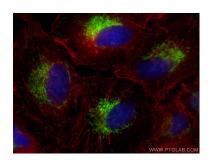
Selected Validation Data



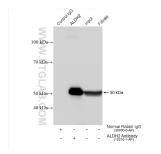
Various lysates were subjected to SDS PAGE followed by western blot with 15310-1-AP (ALDH2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.



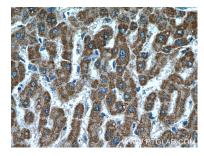
Immunofluorescent analysis of (4% PFA) fixed A549 cells using ALDH2 antibody (15310-1-AP) at dilution of 1:1000 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



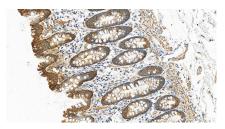
IP result of anti-ALDH2 (IP:15310-1-AP, 4ug; Detection:15310-1-AP 1:8000) with HepG2 cells lysate 2040 ug.



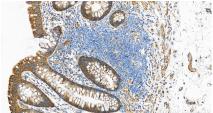
Immunohistochemical analysis of paraffinembedded human liver tissue slide using 15310-1-AP (ALDH2 Antibody) at dilution of 1:200 (under 10x lens).



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



Immunohistochemical analysis of paraffinembedded human normal colon slide using 15310-1-AP (ALDH2 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human normal colon slide using 15310-1AP (ALDH2 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).