

For Research Use Only

# ALDH2 Monoclonal antibody

Catalog Number: 68237-1-Ig **Featured Product**



## Basic Information

<b>Catalog Number:</b> 68237-1-Ig	<b>GenBank Accession Number:</b> BC002967	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 217	<b>CloneNo.:</b> 2G10F4
<b>Source:</b> Mouse	<b>Full Name:</b> aldehyde dehydrogenase 2 family (mitochondrial)	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 56 kDa	
<b>Immunogen Catalog Number:</b> AG7463	<b>Observed MW:</b> 50-55 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : mouse liver tissue, rabbit liver tissue, rat liver tissue
<b>Species Specificity:</b> Human, Mouse, Rat, Rabbit, Pig	

## 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.

## Storage

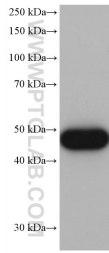
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

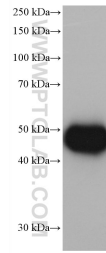
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

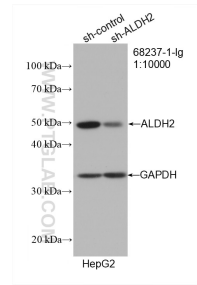
## Selected Validation Data



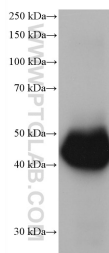
mouse liver tissue were subjected to SDS PAGE followed by western blot with 68237-1-Ig (ALDH2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



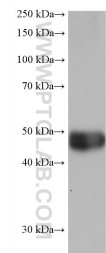
pig liver tissue were subjected to SDS PAGE followed by western blot with 68237-1-Ig (ALDH2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



WB result of ALDH2 antibody (68237-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ALDH2 transfected HepG2 cells.



rabbit liver tissue were subjected to SDS PAGE followed by western blot with 68237-1-Ig (ALDH2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



rat liver tissue were subjected to SDS PAGE followed by western blot with 68237-1-Ig (ALDH2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.