For Research Use Only

# ALDH1B1 Polyclonal antibody

Catalog Number:15560-1-AP 26 Publications

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## Basic Information

Catalog Number:
15560-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7144

GenBank Accession Number:
BC001619

GeneID (NCBI):
219

UNIPROT ID:
P30837

Full Name:
aldehyde dehydrogenase 1 family, member B1

Calculated MW:
57 kDa

Observed MW:
55 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:6000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:20-1:200
IF/ICC: 1:200-1:800

## Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

***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 : HepG2 cells, K-562 cells, mouse brain tissue

IP : mouse brain tissue,

IHC : human testis tissue,

IF/ICC : HepG2 cells,

## Background Information

Aldehyde dehydrogenases (ALDHs) belong to a superfamily of NAD(P)+-dependent enzymes, which catalyze the oxidation of endogenous and exogenous aldehydes to their corresponding acids. ALDH1B1 is a mitochondrial ALDH that it is dramatically upregulated in human colonic adenocarcinoma, making it a potential biomarker for human colon cancer.(PMID:21216231). ALDH1B1 is a homotetramer expressed in various adult and fetal human tissues including liver, testis, kidney, skeletal muscle, heart, placenta, brain and lung(PMID:18611112).

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Carlos J Diaz Osterman | 31478830 | Elife | WB |
| Agustín Hidalgo-Gutiérrez | 34680574 | Biomedicines | WB |
| Akane Kasai | 35318866 | Am J Physiol Regul Integr Comp Physiol | WB |

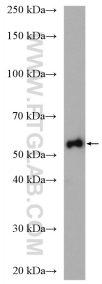
## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

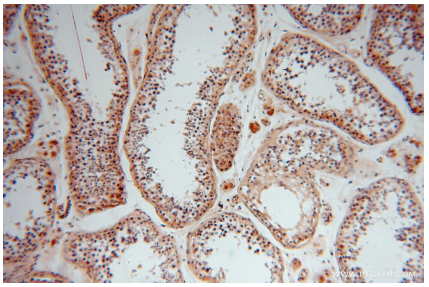
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

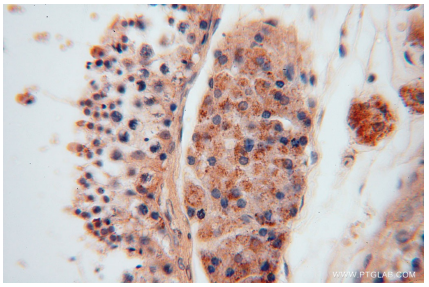
## Selected Validation Data



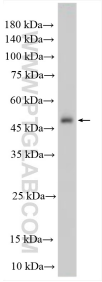

HepG2 cells were subjected to SDS PAGE followed by western blot with 15560-1-AP (ALDH1B1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



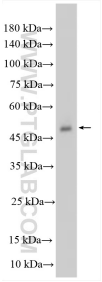
Immunohistochemical analysis of paraffin-embedded human testis using 15560-1-AP (ALDH1B1 antibody) at dilution of 1:100 (under 10x lens).



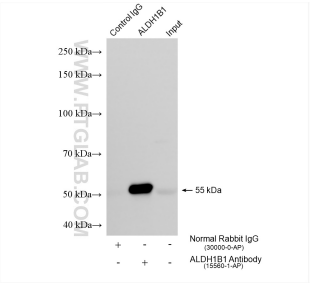

Immunohistochemical analysis of paraffin-embedded human testis using 15560-1-AP (ALDH1B1 antibody) at dilution of 1:100 (under 40x lens).



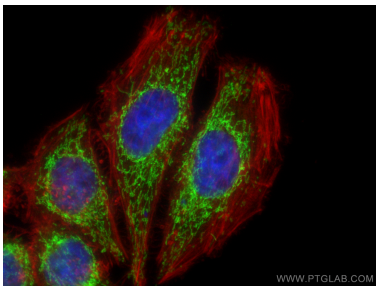

K-562 cells were subjected to SDS PAGE followed by western blot with 15560-1-AP (ALDH1B1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.




HepG2 cells were subjected to SDS PAGE followed by western blot with 15560-1-AP (ALDH1B1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.




IP result of anti-ALDH1B1 (IP:15560-1-AP, 4ug; Detection:15560-1-AP 1:20000) with mouse brain tissue lysate 2100 ug.




Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ALDH1B1 antibody (15560-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).