

For Research Use Only

ALDH1B1 Polyclonal antibody

Catalog Number: 22220-1-AP

2 Publications



Basic Information

Catalog Number:

22220-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 580 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG17557

GenBank Accession Number:

BC001619

GeneID (NCBI):

219

UNIPROT ID:

P30837

Full Name:

aldehyde dehydrogenase 1 family, member B1

Calculated MW:

517 aa, 57 kDa

Observed MW:

55-58 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:500-1:2000

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, 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: HeLa cells, HepG2 cells, mouse brain tissue, mouse testis tissue, rat brain tissue

IHC: human ovary tumor tissue, human colon cancer tissue, human liver tissue, rat kidney tissue

IF/ICC: MCF-7 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). This antibody is specific to ALDH1B1.

Notable Publications

Author	Pubmed ID	Journal	Application
Hao-Long Zeng	29254222	Oncotarget	WB
Tao Zhu	35281423	Transl Cancer Res	IHC

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

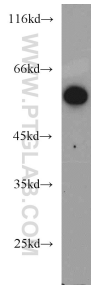
For technical support and original validation data for this product please contact:

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

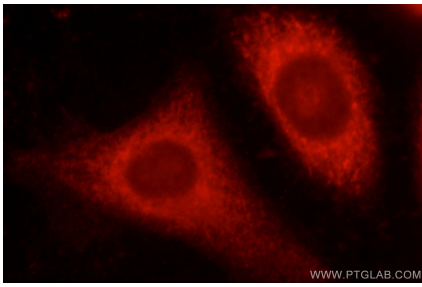
E: proteintech@ptglab.com
W: ptglab.com

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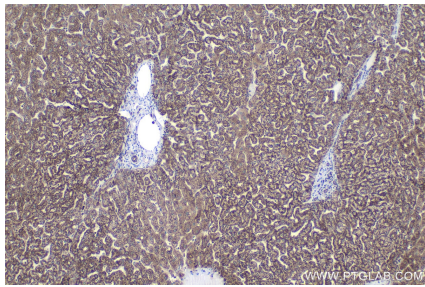
Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 22220-1-AP (ALDH1B1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



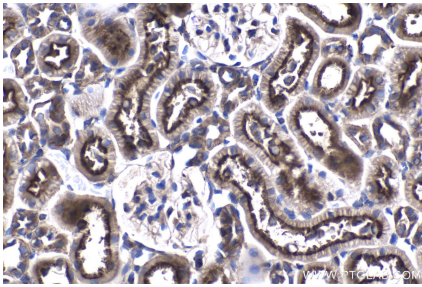
Immunofluorescent analysis of MCF-7 cells, using ALDH1B1 antibody 22220-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 22220-1-AP (ALDH1B1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



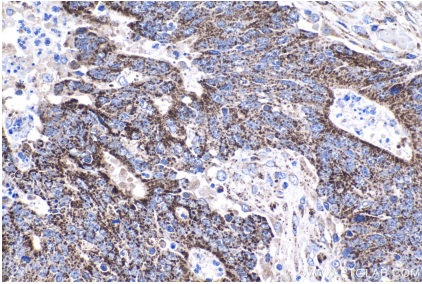
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 22220-1-AP (ALDH1B1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



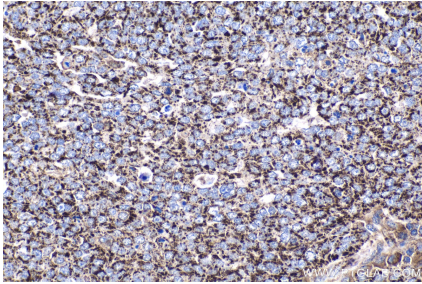
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 22220-1-AP (ALDH1B1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 22220-1-AP (ALDH1B1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 22220-1-AP (ALDH1B1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 22220-1-AP (ALDH1B1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).