

For Research Use Only

ALDH3A1 Polyclonal antibody

Catalog Number: 15578-1-AP

Featured Product

27 Publications



Basic Information

Catalog Number:

15578-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG7977

GenBank Accession Number:

BC004370

GeneID (NCBI):

218

UNIPROT ID:

P30838

Full Name:

aldehyde dehydrogenase 3 family, member A1

Calculated MW:

50 kDa

Observed MW:

50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:20000-1:100000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:5000-1:20000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, rabbit

Positive Controls:

WB : A549 cells,

IP : A549 cells,

IHC : human skin cancer tissue,

IF/ICC : HEK-293T cells,

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

Background Information

ALDH3A1 (Aldehyde dehydrogenase, dimeric NADP-preferring), also named as ALDH3, is a member of the ALDH superfamily, which consists of NAD(P)+-dependent enzymes that catalyse the oxidation of a wide variety of endogenously produced and exogenous aldehydes to their corresponding acids. It is expressed at high concentrations in the mammalian cornea and it is believed that it protects this vital tissue and the rest of the eye against UV light-induced damage. (PMID:12943535). It can exist as a dimer (PMID:16919242).

Notable Publications

Author	Pubmed ID	Journal	Application
Jing Ma	25190659	Invest Ophthalmol Vis Sci	WB, IHC
Beau J Fenner	31632999	Eye Vis (Lond)	FC
Yu-Show Fu	35625862	Biomedicines	IHC

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

*** 20ul sizes contain 0.1% BSA

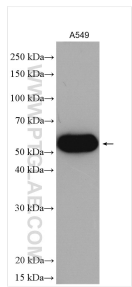
For technical support and original validation data for this product please contact:

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

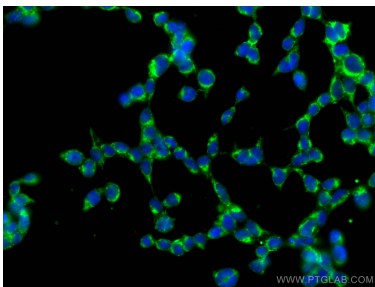
E: proteintech@ptglab.com
W: ptglab.com

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

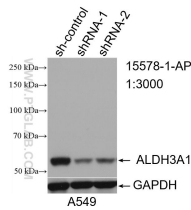
Selected Validation Data



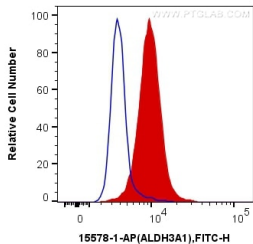
A549 cells were subjected to SDS PAGE followed by western blot with 15578-1-AP (ALDH3A1 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



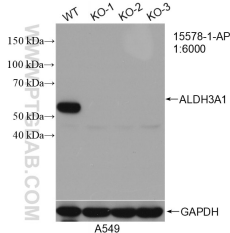
Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293T cells using ALDH3A1 antibody (15578-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



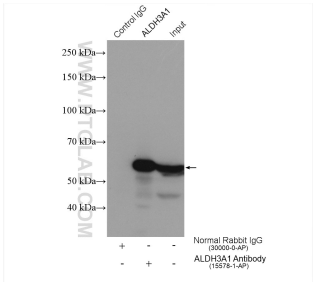
WB result of ALDH3A1 antibody (15578-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ALDH3A1 transfected A549 cells.



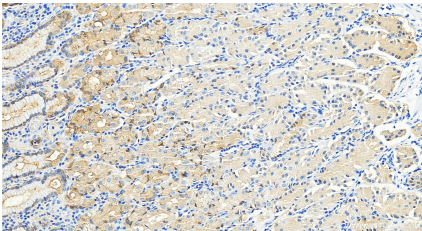
1X10⁶ HEK-293 cells were intracellularly stained with 0.25 ug Anti-Human ALDH3A1 (15578-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.25 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



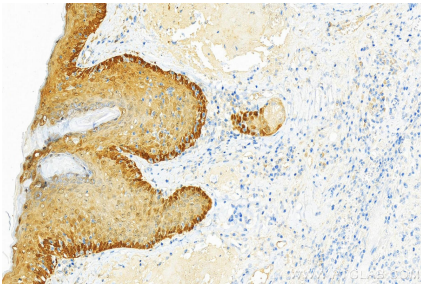
WB result of ALDH3A1 antibody (15578-1-AP; 1:6000; room temperature for 1.5 hours) with wild-type and ALDH3A1 knockout A549 cells.



IP result of anti-ALDH3A1 (IP:15578-1-AP, 4ug; Detection:15578-1-AP 1:3000) with A549 cells lysate 1480 ug.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 15578-1-AP (ALDH3A1 antibody) at dilution of 1:10000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 15578-1-AP (ALDH3A1 antibody) at dilution of 1:10000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).