

For Research Use Only

ALDH1A3 Polyclonal antibody

Catalog Number: 25167-1-AP

Featured Product

16 Publications



Basic Information

Catalog Number:

25167-1-AP

Size:

800 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18605

GenBank Accession Number:

BC069274

GeneID (NCBI):

220

UNIPROT ID:

P47895

Full Name:

aldehyde dehydrogenase 1 family, member A3

Calculated MW:

512 aa, 56 kDa

Observed MW:

50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, goat

Positive Controls:

WB : HepG2 cells, mouse liver tissue, rat liver tissue

IHC : human liver tissue,

IF/ICC : A549 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

Aldehyde dehydrogenase 1 family member A3 (ALDH1A3), is an aldehyde dehydrogenase enzyme that uses retinal as a substrate either in a free or a cellular retinol-binding protein form. ALDH1A3 plays a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. ALDH1A3 is calculated to be 56 kDa.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|---------------------|-------------|
| Changmei Yang | 34506903 | Free Radic Biol Med | WB |
| Xingxing Xu | 29076503 | Cell Res | WB |
| Shoma Tamori | 30559934 | Oncotarget | WB |

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

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

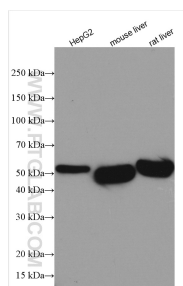
T: 4006900926

E: Proteintech-CN@ptglab.com

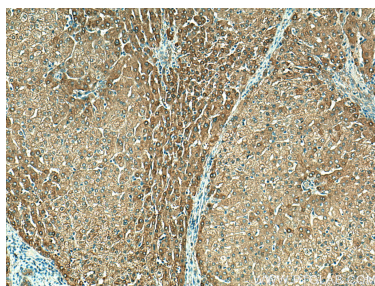
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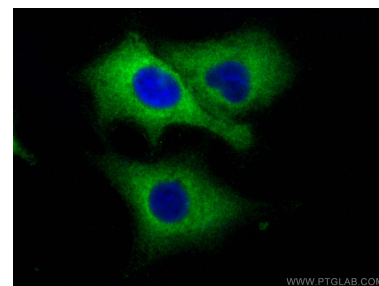
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 25167-1-AP (ALDH1A3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 25167-1-AP (ALDH1A3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using ALDH1A3 antibody (25167-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).