

**ALDH3A2 Antibody (Ascites)**  
**Mouse Monoclonal Antibody (Mab)**  
Catalog # AM1840a

## Specification

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### ALDH3A2 Antibody (Ascites) - Product Information

Application	WB, IHC-P,E
Primary Accession	<a href="#">P51648</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,IgK

### ALDH3A2 Antibody (Ascites) - Additional Information

Gene ID 224

#### Other Names

Fatty aldehyde dehydrogenase, Aldehyde dehydrogenase 10, Aldehyde dehydrogenase family 3 member A2, Microsomal aldehyde dehydrogenase, ALDH3A2, ALDH10, FALDH

#### Target/Specificity

This ALDH3A2 antibody is generated from mouse immunized with ALDH3A2 recombinant protein.

#### Dilution

WB~~1:200~10000  
IHC-P~~1:50~100

#### Format

Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

ALDH3A2 Antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

### ALDH3A2 Antibody (Ascites) - Protein Information

Name ALDH3A2

**Function** Catalyzes the oxidation of medium and long chain aliphatic aldehydes to fatty acids. Active on a variety of saturated and unsaturated aliphatic aldehydes between 6 and 24 carbons in length (PubMed:[18035827](#), PubMed:[18182499](#), PubMed:[22633490](#), PubMed:[25047030](#), PubMed:[9133646](#), PubMed:[9662422](#)). Responsible for conversion of the sphingosine 1-phosphate (S1P) degradation product hexadecenal to hexadecenoic acid (PubMed:[22633490](#)).

### Cellular Location

Microsome membrane; Single-pass membrane protein. Endoplasmic reticulum membrane; Single-pass membrane protein; Cytoplasmic side {ECO:0000250|UniProtKB:P30839}

### Tissue Location

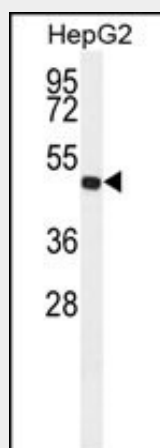
Detected in liver (at protein level).

### ALDH3A2 Antibody (Ascites) - Protocols

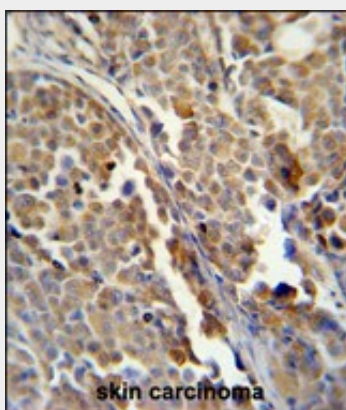
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### ALDH3A2 Antibody (Ascites) - Images



Western blot analysis of ALDH3A2 Antibody (Cat. #AM1840a) in HepG2 cell line lysates (35µg/lane).ALDH3A2 (arrow) was detected using the purified Mab.(1:2000)



ALDH3A2 Monoclonal Antibody (Ascites) (Cat. #AM1840a) immunohistochemistry analysis in

formalin fixed and paraffin embedded human skin carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ALDH3A2 Monoclonal Antibody (Ascites) for immunohistochemistry. Clinical relevance has not been evaluated.

### **ALDH3A2 Antibody (Ascites) - Background**

Aldehyde dehydrogenase isozymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. This gene product catalyzes the oxidation of long-chain aliphatic aldehydes to fatty acid. Mutations in the gene cause Sjogren-Larsson syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

### **ALDH3A2 Antibody (Ascites) - References**

An approach based on a genome-wide association study reveals candidate loci for narcolepsy. Shimada M, et al. Hum Genet, 2010 Oct. PMID 20677014. New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496. Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732. Association study between single-nucleotide polymorphisms in 199 drug-related genes and commonly measured quantitative traits of 752 healthy Japanese subjects. Saito A, et al. J Hum Genet, 2009 Jun. PMID 19343046. Molecular genetics of successful smoking cessation: convergent genome-wide association study results. Uhl GR, et al. Arch Gen Psychiatry, 2008 Jun. PMID 18519826.