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

Specification

ALDH3A2 Antibody (Ascites) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P51648
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
E~~Use at an assay dependent concentration.

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}

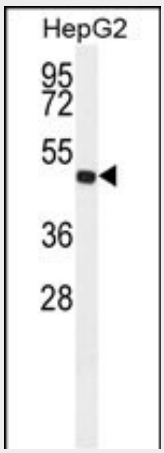
Tissue Location
Detected in liver (at protein level).

ALDH3A2 Antibody (Ascites) - Protocols

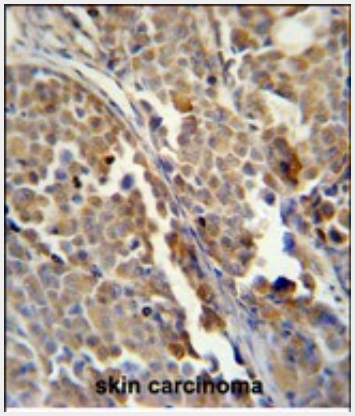
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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)



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ALDH3A2 Monoclonal Antibody (Ascites) (Cat. #AM1840a) immunohistochemistry analysis in formalin fixed and paraffin embedded human skin carcinoma followed by peroxidase conjµgation 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.