

ALDH2 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2295a**Specification****ALDH2 Antibody - Product Information**

Application	E, WB, IF, FC, IHC
Primary Accession	P05091
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	56.3kDa KDa

Description

This protein belongs to the aldehyde dehydrogenase family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of aldehyde dehydrogenase, cytosolic and mitochondrial, can be distinguished by their electrophoretic mobilities, kinetic properties, and subcellular localizations. Most Caucasians have two major isozymes, while approximately 50% of Orientals have the cytosolic isozyme but not the mitochondrial isozyme. A remarkably higher frequency of acute alcohol intoxication among Orientals than among Caucasians could be related to the absence of a catalytically active form of the mitochondrial isozyme. The increased exposure to acetaldehyde in individuals with the catalytically inactive form may also confer greater susceptibility to many types of cancer. This gene encodes a mitochondrial isoform, which has a low Km for acetaldehydes, and is localized in mitochondrial matrix. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Immunogen

Purified recombinant fragment of human ALDH2 (AA: 317-517) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

ALDH2 Antibody - Additional Information**Gene ID 217****Other Names**

Aldehyde dehydrogenase, mitochondrial, 1.2.1.3, ALDH class 2, ALDH-E2, ALDHI, ALDH2, ALDM

Dilution

E~~1/10000
WB~~1/500 - 1/2000
IF~~1/75
FC~~1/200 - 1/400
IHC~~1/200 - 1/1000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ALDH2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ALDH2 Antibody - Protein Information

Name ALDH2

Synonyms ALDM

Cellular Location

Mitochondrion matrix.

ALDH2 Antibody - 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](#)