

ALDH6A1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2231a

Specification

ALDH6A1 Antibody - Product Information

Application	E, WB, IF, FC, IHC
Primary Accession	Q02252
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	57.8kDa KDa

Description

This gene encodes a member of the aldehyde dehydrogenase protein family. The encoded protein is a mitochondrial methylmalonate semialdehyde dehydrogenase that plays a role in the valine and pyrimidine catabolic pathways. This protein catalyzes the irreversible oxidative decarboxylation of malonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA. Methylmalonate semialdehyde dehydrogenase deficiency is characterized by elevated beta-alanine, 3-hydroxypropionic acid, and both isomers of 3-amino and 3-hydroxyisobutyric acids in urine organic acids. Alternate splicing results in multiple transcript variants.

Immunogen

Purified recombinant fragment of human ALDH6A1 (AA: 1-195) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

ALDH6A1 Antibody - Additional Information

Gene ID 4329

Other Names

Methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial, MMSDH, Malonate-semialdehyde dehydrogenase [acylating], 1.2.1.18, 1.2.1.27, Aldehyde dehydrogenase family 6 member A1, ALDH6A1, MMSDH

Dilution

E~~1/10000
WB~~1/500 - 1/2000
IF~~1/200 - 1/1000
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

ALDH6A1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ALDH6A1 Antibody - Protein Information

Name ALDH6A1 ([HGNC:7179](#))

Function

Malonate and methylmalonate semialdehyde dehydrogenase involved in the catabolism of valine, thymine, and compounds catabolized by way of beta-alanine, including uracil and cytidine.

Cellular Location

Mitochondrion.

ALDH6A1 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](#)