

# ALDH6A1 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO2230a

## Product Information

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| <b>Application</b>       | WB, IHC, FC, ICC, E  |
| <b>Primary Accession</b> | <a href="#">Q02252</a>   |
| <b>Reactivity</b>        | Human  |
| <b>Host</b>              | Mouse  |
| <b>Clonality</b>         | Monoclonal   |
| <b>Clone Names</b>       | 6H9B8  |
| <b>Isotype</b>           | IgG1   |
| <b>Calculated MW</b>     | 57840  |
| <b>Description</b>       | 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. |
| <b>Immunogen</b>         | Purified recombinant fragment of human ALDH6A1 (AA: 1-195) expressed in E. Coli.   |
| <b>Formulation</b>       | Purified antibody in PBS with 0.05% sodium azide   |

## Additional Information

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| <b>Gene ID</b>     | 4329  |
| <b>Other Names</b> | 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 |
| <b>Dilution</b>    | WB~~1/500 - 1/2000 IHC~~1:100~500 FC~~1/200 - 1/400 ICC~~N/A<br>E~~1/10000  |
| <b>Storage</b>     | 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.  |
| <b>Precautions</b> | ALDH6A1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.  |

## Protein Information

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| Name              | ALDH6A1 ( <a href="#">HGNC:7179</a> )  |
| 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.   |

## References

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1.Orphanet J Rare Dis. 2013 Jul 9;8:98.2.J Inherit Metab Dis. 2012 May;35(3):437-42.

## Images

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