

ALDH6A1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP1469b**Specification**

ALDH6A1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q02252](#)**ALDH6A1 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 4329

Other Names

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1469b](/product/products/AP1469b) was selected from the C-term region of human ALDH6A1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ALDH6A1 Antibody (C-term) Blocking Peptide - Protein InformationName 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 (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ALDH6A1 Antibody (C-term) Blocking Peptide - Images

ALDH6A1 Antibody (C-term) Blocking Peptide - Background

ALDH6A1 belongs to the aldehyde dehydrogenases family of proteins. This enzyme plays a role in the valine and pyrimidine catabolic pathways. This protein is a mitochondrial methylmalonate semialdehyde dehydrogenase, and 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.

ALDH6A1 Antibody (C-term) Blocking Peptide - References

Kuiper, H., Cytogenet. Genome Res. 109 (4), 533 (2005) Anderson, N.L., Mol. Cell Proteomics 3 (4), 311-326 (2004) Chambliss, K.L., J. Inherit. Metab. Dis. 23 (5), 497-504 (2000) Kedishvili, N.Y., J. Biol. Chem. 267 (27), 19724-19729 (1992)