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ALDH6A1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP1469a

Specification

ALDH6A1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q02252

ALDH6A1 Antibody (N-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 AP1469a was selected from the N-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 (N-term) Blocking Peptide - 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 (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ALDH6A1 Antibody (N-term) Blocking Peptide - Images

ALDH6A1 Antibody (N-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 (N-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)