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ALDH6A1 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2231a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	Q02252
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6H9B7
Isotype	IgG1
Calculated MW	57840
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

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	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
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.

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.

References

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

Images