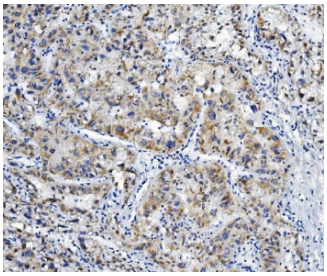
ALDH6A1 Antibody (RQ6085)

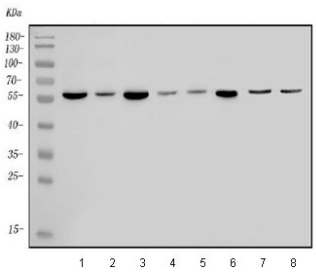
Catalog No.	Formulation	Size
RQ6085	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q02252
Localization	Cytoplasmic
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This ALDH6A1 antibody is available for research use only.



IHC staining of FFPE human liver cancer with ALDH6A1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) rat liver, 2) rat heart, 3) rat kidney, 4) mouse liver, 5) mouse kidney, 6) mouse NIH 3T3, 7) human MCF7 and 8) human HepG2 lysate with ALDH6A1 antibody. Predicted molecular weight ~58 kDa.

Description

Methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial (MMSDH) is an enzyme that in humans is encoded by the ALDH6A1 gene. 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.

Application Notes

Optimal dilution of the ALDH6A1 antibody should be determined by the researcher.

Immunogen

Amino acids DTNFYGKQGIQFYTQLK from the human protein were used as the immunogen for the ALDH6A1 antibody.

Storage

After reconstitution, the ALDH6A1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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