ARG40467
anti-ALDH6A1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes ALDH6A1
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-P
Host	Mouse
Clonality	Monoclonal
Clone	147CT8.3.4
Isotype	IgG1, kappa
Target Name	ALDH6A1
Species	Human
Immunogen	Human ALDH6A1 recombinant protein.
Conjugation	Un-conjugated
Alternate Names	MMSDH; Malonate-semialdehyde dehydrogenase [acylating]; Aldehyde dehydrogenase family 6 member A1; Methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial; EC 1.2.1.18; EC 1.2.1.27; MMSADHA

Application Instructions

Application table

Application	Dilution
ICC/IF	1:25
IHC-P	1:25

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

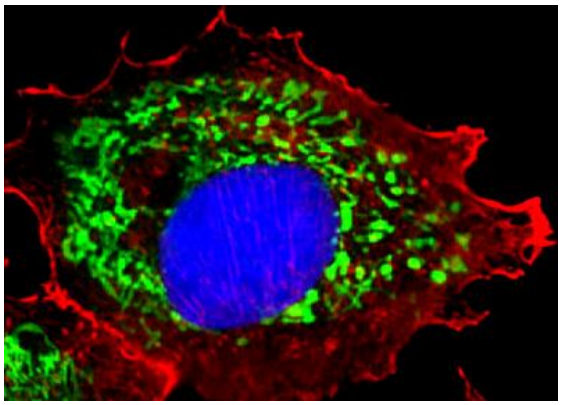
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

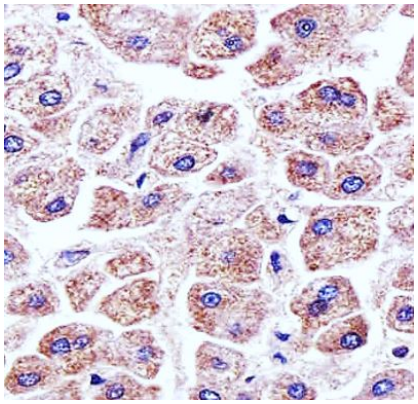
Gene Symbol	ALDH6A1
Gene Full Name	aldehyde dehydrogenase 6 family, member A1
Background	This gene encodes a member of the aldehyde dehydrogenase protein family. The encoded protein is a mitochondrial methylmalonate semialdehyde dehydrogenase that plays a role in the valine and pyrimidine catabolic pathways. 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. [provided by RefSeq, Jun 2013]
Function	Plays a role in valine and pyrimidine metabolism. Binds fatty acyl-CoA. [UniProt]
Calculated Mw	58 kDa
Cellular Localization	Mitochondrion. [UniProt]

Images



ARG40467 anti-ALDH6A1 antibody ICC/IF image

Immunofluorescence: MCF7 cells stained with ARG40467 anti-ALDH6A1 antibody (green) at 1:25 dilution. DAPI (blue) for nuclear staining. Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



ARG40467 anti-ALDH6A1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver tissue stained with ARG40467 anti-ALDH6A1 antibody at 1:25 dilution.