# ARG40467
# anti-ALDH6A1 antibody [147CT8.3.4]

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.

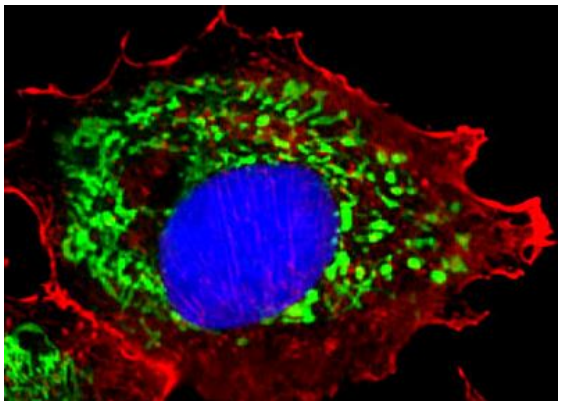
## Properties

| | |
|---|---|
| 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

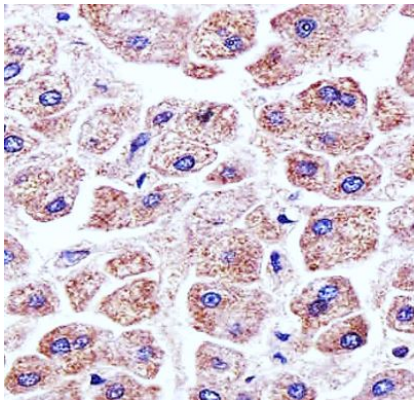
| | |
|---|---|
| Gene Symbol | ALDH6A1 |
| Gene Full Name | aldehyde dehydrogenase 6 family, member A1 |
| Background | This gene encodes a member of the aldehyde dehydrogenase protein family. The encoded protein is a mitochondrial methylmalonate semialdehyde dehydrogenase that plays a role in the valine 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.