

## ARG40438 anti-ALDH6A1 antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes ALDH6A1  |
| Tested Reactivity   | Hu, Ms, Rat  |
| Tested Application  | ICC/IF, WB   |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | ALDH6A1  |
| Species             | Human  |
| Immunogen           | Recombinant fusion protein corresponding to aa. 326-535 of Human ALDH6A1 (NP_005580.1).  |
| 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   | 1:50 - 1:200   |
|                   | WB   | 1:500 - 1:2000 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                |
| Positive Control  | 22Rv1  |                |
| Observed Size     | 58 kDa   |                |

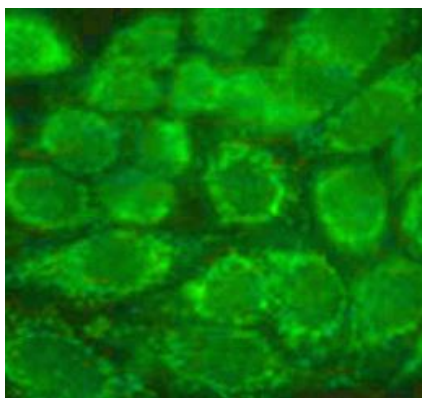
### Properties

|                     |   |
|---------------------|---|
| Form                | Liquid  |
| Purification        | Affinity purified.  |
| Buffer              | PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.  |
| Preservative        | 0.02% Sodium azide  |
| Stabilizer          | 50% Glycerol  |
| 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. 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. |

## Bioinformation

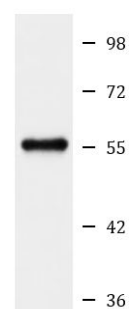
|                       |   |
|-----------------------|---|
| Gene Symbol           | ALDH6A1   |
| Gene Full Name        | aldehyde dehydrogenase 6 family, member A1  |
| Background            | This gene encodes a member of the aldehyde dehydrogenase protein family. The encoded protein is a mitochondrial 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



ARG40438 anti-ALDH6A1 antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG40438 anti-ALDH6A1 antibody at 1:100 dilution.



22Rv1

ARG40438 anti-ALDH6A1 antibody WB image

Western blot: 25 µg of 22Rv1 cell lysate stained with ARG40438 anti-ALDH6A1 antibody at 1:1000 dilution.