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# 10-6533: Mouse Monoclonal Antibody to ALDH6A1 (Clone: 147CT8.3.4)(Discontinued)

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|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | 147CT8.3.4 |
| **Application :** | WB,IHC-P,IF |
| **Reactivity :** | Human |
| **Gene :** | ALDH6A1 |
| **Gene ID :** | 4329 |
| **Uniprot ID :** | Q02252 |
| **Format :** | Purified |
| **Alternative Name :** | Methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial, MMSDH, Malonate-semialdehyde dehydrogenase [acylating], Aldehyde dehydrogenase family 6 member A1, ALDH6A1, MMSDH |
| **Isotype :** | Mouse IgG1,Kappa |
| **Immunogen Information :** | Recombinant Protein |

## Description

This protein belongs to the aldehyde dehydrogenases family of proteins. This enzyme plays a role in the valine and pyrimidine catabolic pathways. The product of this gene, a mitochondrial methylmalonate semialdehyde dehydrogenase, 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.

## Product Info

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| **Amount :** | 80 µl / 400 µl |
| **Purification :** | Protein G Chromatography |
| **Content :** | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| **Storage condition :** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term store at -20°C in small aliquots to prevent freeze-thaw cycles. |

## Application Note

IF~1:25|| WB~1:1000|| IHC-P~1:25

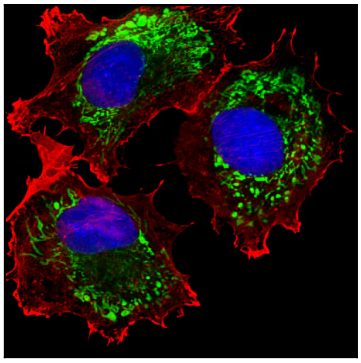


Figure 1: Fluorescent image of MCF-7 cells stained with ALDH6A1 Antibody (10-6533). ALDH6A1 Antibody was diluted at 1:25 dilution. An Alexa Fluor® 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).

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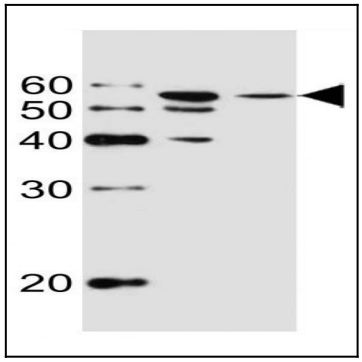



Figure 2: Western blot analysis of ALDH6A1 Antibody (10-6533) with lysates lane 1: MCF-7 and lane 2: T47D cell line. ALDH6A1 Antibody was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20Î¼g per lane.

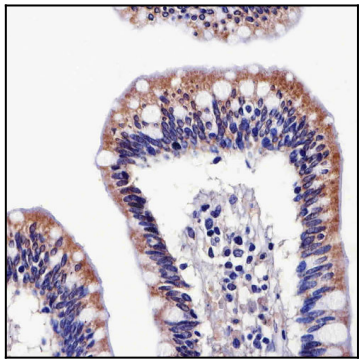


Figure 3: Immunohistochemical analysis of ALDH6A1 Antibody (10-6533) with paraffin-embedded h colon section. ALDH6A1 Antibody was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

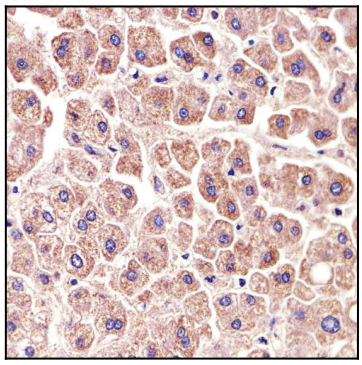


Figure 4: Immunohistochemical analysis of ALDH6A1 Antibody (10-6533) with paraffin-embedded h liver section. ALDH6A1 Antibody was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

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