

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

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

<b>Amount :</b>	80 µl / 400 µl
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
<b>Storage condition :</b>	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

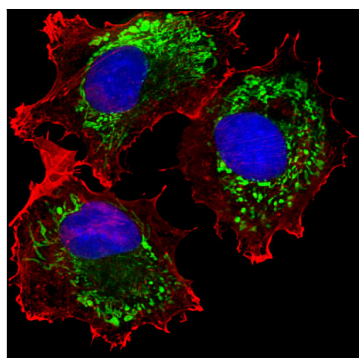


Figure 1: Fluorescent image of MCF-7 cells stained with ALDH6A1 Antibody (10-6533). ALDH6A1 Antibody was diluted at 1:25 dilution. An Alexa Fluor® 488-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue). Cytoplasmic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

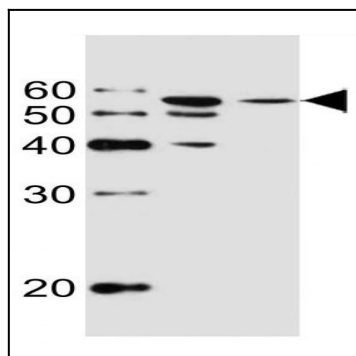


Figure 2: Western blot analysis of ALDH6A1 Antibody (10-6533) with lysates lane 1: MCF-7 and lane 2: T47D cell line. ALDH6A1 Antibody was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20 $\mu$ g per lane.

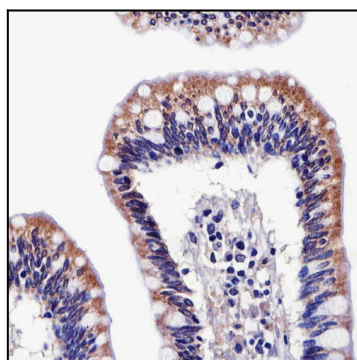


Figure 3: Immunohistochemical analysis of ALDH6A1 Antibody (10-6533) with paraffin-embedded h colon section. ALDH6A1 Antibody was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

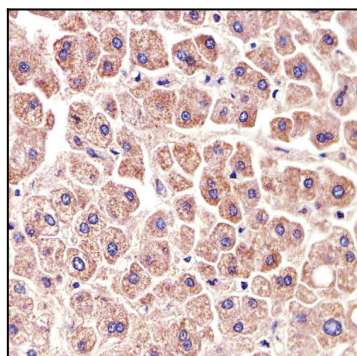


Figure 4: Immunohistochemical analysis of ALDH6A1 Antibody (10-6533) with paraffin-embedded h liver section. ALDH6A1 Antibody was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-mouse IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.