

Anti-ALDH6A1 Antibody

Catalog # AP95662

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	Q02252
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	57840

Additional Information

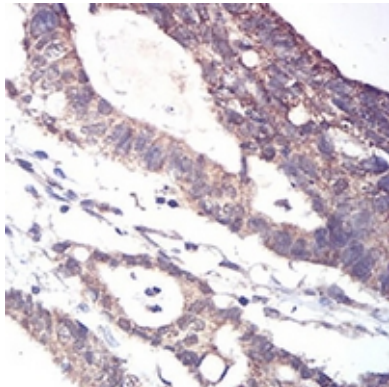
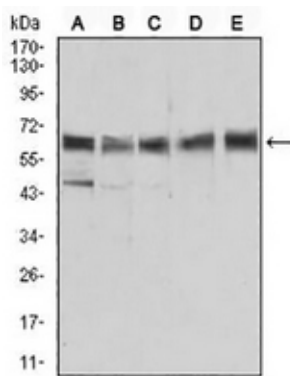
Gene ID	4329
Other Names	MMSDH; Methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial; MMSDH; Malonate-semialdehyde dehydrogenase [acylating]; Aldehyde dehydrogenase family 6 member A1
Target/Specificity	Recombinant fusion protein of human ALDH6A1 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

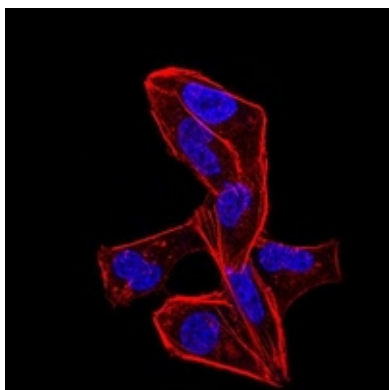
Name	ALDH6A1 (HGNC:7179)
Function	Malonate and methylmalonate semialdehyde dehydrogenase involved in the catabolism of valine, thymine, and compounds catabolized by way of beta-alanine, including uracil and cytidine.
Cellular Location	Mitochondrion.

Images

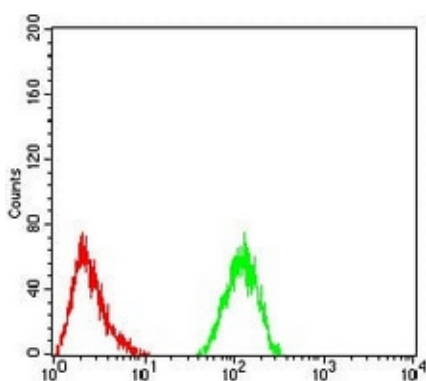
Western blot analysis of ALDH6A1 expression in Jurkat (A), HEK293 (B), Hela (C), MCF7 (D), LNCap (E) whole cell lysates. (Predicted band size: 58 kD; Observed band size: 58 kD)



Immunohistochemical analysis of ALDH6A1 staining in human rectum cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of ALDH6A1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of HeLa cells using Anti-ALDH6A1 Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.