

Anti-ALDH2 Antibody

Catalog # AP95661

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	P05091
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	56381

Additional Information

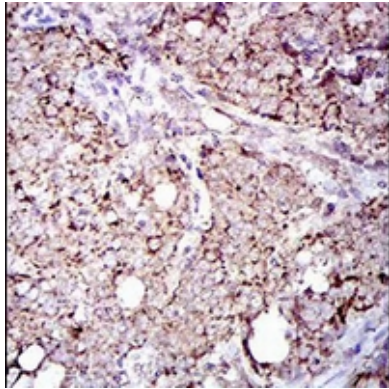
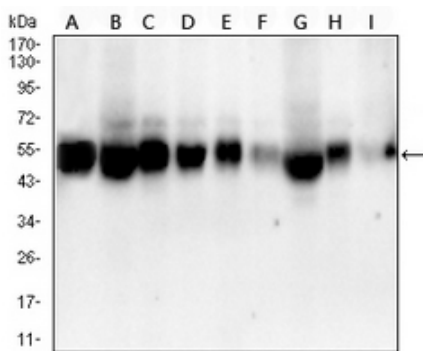
Gene ID	217
Other Names	ALDM; Aldehyde dehydrogenase, mitochondrial; ALDH class 2; ALDH-E2; ALDHI
Target/Specificity	Recombinant fusion protein of human ALDH2 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

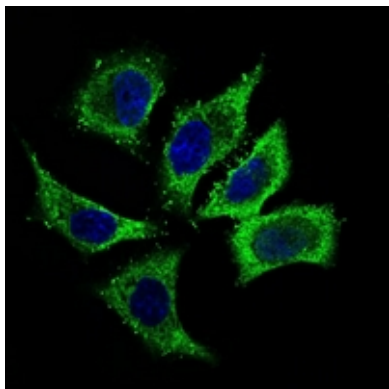
Name	ALDH2
Synonyms	ALDM
Function	Required for clearance of cellular formaldehyde, a cytotoxic and carcinogenic metabolite that induces DNA damage.
Cellular Location	Mitochondrion matrix.

Images

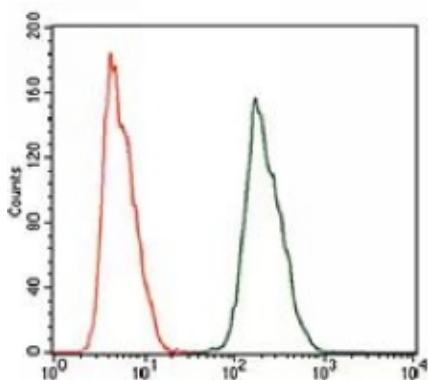
Western blot analysis of ALDH2 expression in mouse liver (A), Raw264.7 (B), NIH/3T3 (C), NRK (D), C2C12 (E), C6 (F), F9 (G), COS7 (H), CHO3D10 (I) whole cell lysates.
(Predicted band size: 56 kD; Observed band size: 55 kD)



Immunohistochemical analysis of ALDH2 staining in human cervical 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 ALDH2 staining in HepG2 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 hidified 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-ALDH2 Antibody (green) and negative control (red).

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