

A Reliable Research Partner in Life Science and Medicine

# ALDH1/ALDH1A1/ALDC Monoclonal Antibody

catalog number: AN200041P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Reactivity Human

Immunogen Recombinant Human ALDH1 protein

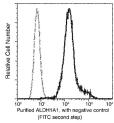
Host Mouse
Isotype IgG1
Clone A885
Purification Protein A

Buffer 0.2 µm filtered solution in PBS

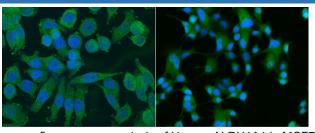
Applications	Recommended	Dilution
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WB 1:500-1:2000 FCM 1:25-1:100 ICC/IF 1:20-1:100

#### Data



Flow cytometric analysis of Human ALDH1A1 on A549 cells. Immunofluorescence analysis of Human ALDH1A1 in MCF7
Cells were stained with purified anti-Human ALDH1A1, then
a FITC-conjugated second step antibody. The histogram
were derived from gated events with the forward and side
light-scatter characteristics of intact cells.
Immunofluorescence analysis of Human ALDH1A1 in MCF7
or SKBR3 cells. Cells were fixed with 4% PFA,
permeabilzed with 1% Triton X-100 in PBS, blocked with
10% serum, and incubated with mouse anti-Human
ALDH1A1 Monoclonal Antibody (1:60). Then cells were



Immunofluorescence analysis of Human ALDH1A1 in MCF7 or SKBR3 cells. Cells were fixed with 4% PFA, permeabilzed with 1% Triton X-100 in PBS, blocked with 10% serum, and incubated with mouse anti-Human ALDH1A1 Monoclonal Antibody (1:60). Then cells were stained with the Alexa Fluor® 488-conjugated Goat Antimouse IgG secondary antibody (left panel, captured by laser confocal scanning microscope; right panel, captured by fluorescence microscope), countstained with DAPI for nuclear staining (blue). Positive staining was localized to cytoplasm.



Western Blot with ALDH1 / ALDH1A1 / ALDC Monoclonal Antibody at dilution of 1:500. Lane A: HepG2 Whole Cell Lysate, Lysates/proteins at 30 μg per lane.

Observed-MW:55 kDa Calculated-MW:55 kDa

# For Research Use Only



## **Elabscience Bionovation Inc.**

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# **Preparation & Storage**

Storage This antibody can be stored at 2°C-8°C for one month without detectable loss of

activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

Shipping Ice bag

### **Background**

The protein encoded by this gene belongs to the aldehyde dehydrogenase family. Aldehyde dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. There are two major aldehyde dehydrogenase isozymes in the liver, cytosolic and mitochondrial, which are encoded by distinct genes, and can be distinguished by their electrophoretic mobility, kinetic properties, and subcellular localization. This gene encodes the cytosolic isozyme. Studies in mice show that through its role in retinol metabolism, this gene may also be involved in the regulation of the metabolic responses to high-fat diet.

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