

**Anti-ALDH1A2 Antibody**  
**Rabbit polyclonal antibody to ALDH1A2**  
**Catalog # AP60216****Specification**

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**Anti-ALDH1A2 Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">O94788</a>
Other Accession	<a href="#">Q62148</a>
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56724

**Anti-ALDH1A2 Antibody - Additional Information****Gene ID** 8854**Other Names**

RALDH2; Retinal dehydrogenase 2; RALDH 2; RaIDH2; Aldehyde dehydrogenase family 1 member A2; Retinaldehyde-specific dehydrogenase type 2; RALDH(II)

**Target/Specificity**

Recognizes endogenous levels of ALDH1A2 protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)

IF~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-ALDH1A2 Antibody - Protein Information****Name** ALDH1A2**Synonyms** RALDH2**Function**

Catalyzes the NAD-dependent oxidation of aldehyde substrates, such as all-trans-retinal and all-trans-13,14-dihydroretinal, to their corresponding carboxylic acids, all-trans-retinoate and all-trans-13,14-dihydroretinoate, respectively (PubMed:<a href="http://www.uniprot.org/citations/29240402" target="\_blank">29240402</a>, PubMed:<a href="http://www.uniprot.org/citations/33565183" target="\_blank">33565183</a>). Retinoate

signaling is critical for the transcriptional control of many genes, for instance it is crucial for initiation of meiosis in both male and female (Probable) (PubMed:<a href="http://www.uniprot.org/citations/33565183" target="\_blank">33565183</a>). Recognizes retinal as substrate, both in its free form and when bound to cellular retinol-binding protein (By similarity). Can metabolize octanal and decanal, but has only very low activity with benzaldehyde, acetaldehyde and propanal (By similarity). Displays complete lack of activity with citral (By similarity).

#### Cellular Location

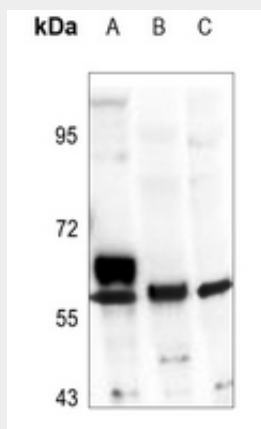
Cytoplasm.

#### Anti-ALDH1A2 Antibody - Protocols

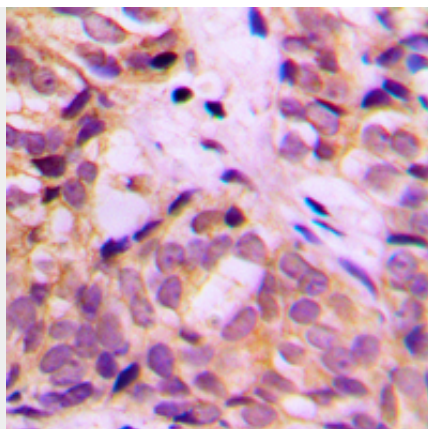
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

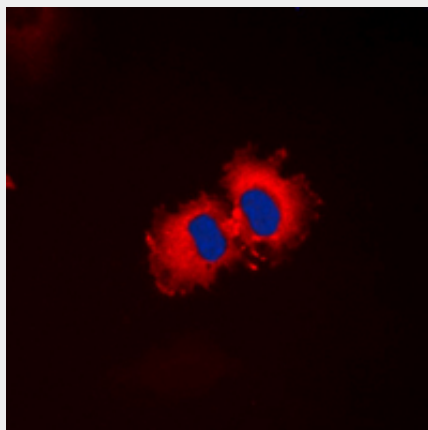
#### Anti-ALDH1A2 Antibody - Images



Western blot analysis of ALDH1A2 expression in K562 (A), PC12 (B), CT26 (C) whole cell lysates.



Immunohistochemical analysis of ALDH1A2 staining in human breast 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 ALDH1A2 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 humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

#### **Anti-ALDH1A2 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human ALDH1A2. The exact sequence is proprietary.