

**ALDH3A1 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50971****Specification**

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**ALDH3A1 Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P30838</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>50 KDa</b>
Antigen Region	<b>231 - 290</b>

**ALDH3A1 Antibody - Additional Information****Gene ID** 218**Other Names**

Aldehyde dehydrogenase, dimeric NADP-preferring, ALDHIII, Aldehyde dehydrogenase 3, Aldehyde dehydrogenase family 3 member A1, ALDH3A1, ALDH3

**Target/Specificity**

KLH conjugated synthetic peptide derived from human ALDH3A1

**Dilution**

WB~~ 1:1000

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

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

**ALDH3A1 Antibody - Protein Information****Name** ALDH3A1**Synonyms** ALDH3**Function**

ALDHs play a major role in the detoxification of alcohol- derived acetaldehyde (Probable). They are involved in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation (Probable). Oxidizes medium and long chain aldehydes into non-toxic fatty acids (PubMed:<a href="http://www.uniprot.org/citations/1737758" target="\_blank">1737758</a>). Preferentially oxidizes aromatic aldehyde substrates (PubMed:<a href="http://www.uniprot.org/citations/1737758" target="\_blank">1737758</a>). Comprises about 50 percent of corneal epithelial soluble proteins (By similarity). May play a role in preventing

corneal damage caused by ultraviolet light (By similarity).

#### Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P47739}.

#### Tissue Location

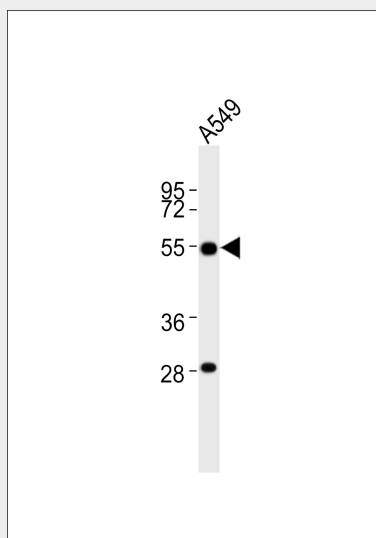
High levels in stomach, esophagus and lung; low level in the liver and kidney

### ALDH3A1 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](#)

### ALDH3A1 Antibody - Images



Anti-ALDH3A1 Antibody at 1:1000 dilution + A549 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 50 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

### ALDH3A1 Antibody - Background

ALDHs play a major role in the detoxification of alcohol-derived acetaldehyde. They are involved in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. This protein preferentially oxidizes aromatic aldehyde substrates. It may play a role in the oxidation of toxic aldehydes.

### ALDH3A1 Antibody - References

Schuuring E.M.D., et al. Submitted (AUG-1991) to the EMBL/GenBank/DDBJ databases.

Hsu L.C.,et al.J. Biol. Chem. 267:3030-3037(1992).  
Hsu L.C.,et al.Adv. Exp. Med. Biol. 328:141-152(1993).  
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.  
Ota T.,et al.Nat. Genet. 36:40-45(2004).