

# ALDH3A1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50971

## Product Information

Application	WB
Primary Accession	<a href="#">P30838</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50395

## 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

## 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="#">1737758</a> ). Preferentially oxidizes aromatic aldehyde substrates (PubMed: <a href="#">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

## Background

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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.

## References

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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).

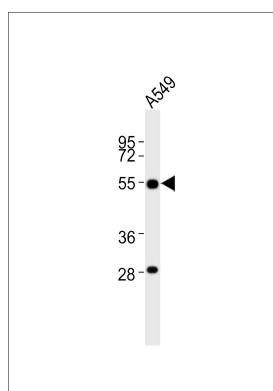
Hsu L.C.,et al.Adv. Exp. Med. Biol. 328:141-152(1993).

Kalnina N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).

## Images

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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% NFDM/TBST.

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