Product Name: ALDH3A1 Rabbit Polyclonal Antibody
Catalog #: APRab06764

Summary

Production Name	ALDH3A1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ALDH3A1
Alternative Names	ALDH3A1; ALDH3; Aldehyde dehydrogenase, dimeric NADP-preferring; ALDHIII; Aldehyde dehydrogenase 3; Aldehyde dehydrogenase family 3 member A1
Gene ID	218.0
SwissProt ID	P30838.The antiserum was produced against synthesized peptide derived from human ALDH3A1. AA range:236-285

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:20000
Molecular Weight	50kD

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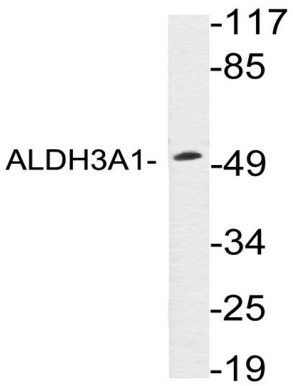
Background

Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. The enzyme encoded by this gene forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. It is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Sep 2008],catalytic activity:An aldehyde + NAD(P)(+) + H(2)O = an acid + NAD(P)H.,function: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.,similarity:Belongs to the aldehyde dehydrogenase family.,subunit:Homodimer.,tissue specificity:High levels in stomach, esophagus and lung; low level in the liver and kidney.,

Research Area

Glycolysis / Gluconeogenesis;Histidine metabolism;Tyrosine metabolism;Phenylalanine metabolism;Metabolism of xenobiotics by cytochrome P450;Drug metabolism;

Image Data



Western blot analysis of lysates from A549 cells, using ALDH3A1 antibody.

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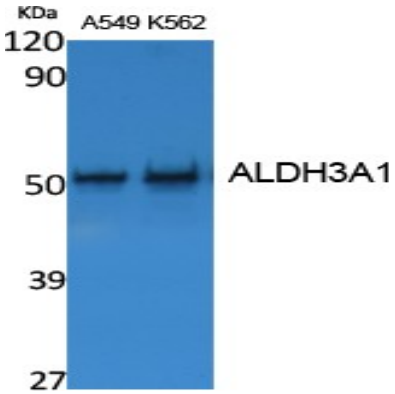

Western Blot analysis of extracts from A549, K562 cells, using ALDH3A1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

Note

For research use only.