

# ALDH3B1 Polyclonal Antibody

Catalog # AP68373

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">P43353</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	51840

## Additional Information

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<b>Gene ID</b>	221
<b>Other Names</b>	ALDH3B1; ALDH7; Aldehyde dehydrogenase family 3 member B1; Aldehyde dehydrogenase 7
<b>Dilution</b>	WB--Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P--N/A IF--1:50~200 ICC--N/A E--N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	ALDH3B1
<b>Synonyms</b>	ALDH7
<b>Function</b>	Oxidizes medium and long chain saturated and unsaturated fatty aldehydes generated in the plasma membrane into non-toxic fatty acids (PubMed: <a href="#">17382292</a> , PubMed: <a href="#">23721920</a> ). May have a protective role against the cytotoxicity induced by lipid peroxidation (PubMed: <a href="#">17382292</a> ). Short-chain fatty aldehydes are not good substrates (PubMed: <a href="#">17382292</a> ). Can use both NADP(+) and NAD(+) as electron acceptor in vitro, however in vivo preference will depend on their tissue levels (PubMed: <a href="#">17382292</a> ). Low activity towards acetaldehyde and 3,4- dihydroxyphenylacetaldehyde (PubMed: <a href="#">17382292</a> , PubMed: <a href="#">23721920</a> ). Able to metabolize aromatic aldehydes such as benzaldehyde to their acid form (PubMed: <a href="#">17382292</a> ).
<b>Cellular Location</b>	Cell membrane; Lipid-anchor. Note=Primarily in the plasma membrane as well as in some punctate structures in the cytoplasm

## Tissue Location

Highest expression in kidney and lung.

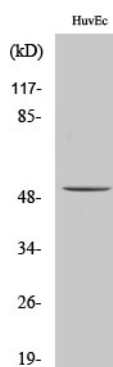
## Background

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Oxidizes medium and long chain saturated and unsaturated aldehydes. Metabolizes also benzaldehyde. Low activity towards acetaldehyde and 3,4-dihydroxyphenylacetaldehyde. May not metabolize short chain aldehydes. May use both NADP(+) and NAD(+) as cofactors. May have a protective role against the cytotoxicity induced by lipid peroxidation.

## Images

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Western Blot analysis of various cells using ALDH3B1  
Polyclonal Antibody diluted at 1 : 500

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