

# ALDH3B1 Polyclonal Antibody

Catalog # AP68373

## Product Information

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

## Additional Information

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Gene ID	221
Other Names	ALDH3B1; ALDH7; Aldehyde dehydrogenase family 3 member B1; Aldehyde dehydrogenase 7
Dilution	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
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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Name	ALDH3B1
Synonyms	ALDH7
Function	<p>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>).</p>
Cellular Location	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.

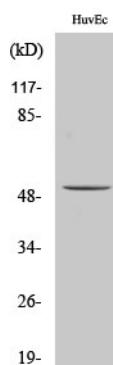
## Background

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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'.