

ALDH3B1 Polyclonal Antibody

Catalog # AP68373

#### Specification

# ALDH3B1 Polyclonal Antibody - Product Information

| Application       | WB, IHC-P     |
|-------------------|---------------|
| Primary Accession | <u>P43353</u> |
| Reactivity        | Human         |
| Host              | Rabbit        |
| Clonality         | Polyclonal    |
|                   |               |

# ALDH3B1 Polyclonal Antibody - Additional Information

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

# ALDH3B1 Polyclonal Antibody - Protein Information

Name ALDH3B1

Synonyms ALDH7

Function

Oxidizes medium and long chain saturated and unsaturated fatty aldehydes generated in the plasma membrane into non-toxic fatty acids (PubMed:<a

href="http://www.uniprot.org/citations/17382292" target="\_blank">17382292</a>, PubMed:<a href="http://www.uniprot.org/citations/23721920" target="\_blank">23721920</a>). May have a protective role against the cytotoxicity induced by lipid peroxidation (PubMed:<a

href="http://www.uniprot.org/citations/17382292" target="\_blank">17382292</a>). Short-chain fatty aldehydes are not good substrates (PubMed:<a

href="http://www.uniprot.org/citations/17382292" target="\_blank">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="http://www.uniprot.org/citations/17382292"

target="\_blank">17382292</a>). Low activity towards acetaldehyde and 3,4-

dihydroxyphenylacetaldehyde (PubMed:<a href="http://www.uniprot.org/citations/17382292"



target="\_blank">17382292</a>, PubMed:<a href="http://www.uniprot.org/citations/23721920" target="\_blank">23721920</a>). Able to metabolize aromatic aldehydes such as benzaldehyde to their acid form (PubMed:<a href="http://www.uniprot.org/citations/17382292" target="\_blank">17382292</a>).

**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.

### ALDH3B1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

#### ALDH3B1 Polyclonal Antibody - Images



#### ALDH3B1 Polyclonal Antibody - Background

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.