

ALDH3B1 Polyclonal Antibody Catalog # AP68373

Specification

ALDH3B1 Polyclonal Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P43353
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:17382292, PubMed:23721920). May have a protective role against the cytotoxicity induced by lipid peroxidation (PubMed:17382292). Short-chain fatty aldehydes are not good substrates (PubMed:17382292). Can use both NADP(+) and NAD(+) as electron acceptor in vitro, however in vivo preference will depend on their tissue levels (PubMed:17382292). Low activity towards acetaldehyde and 3,4-dihydroxyphenylacetaldehyde (PubMed:17382292)

target="_blank">>17382292, PubMed:>23721920). Able to metabolize aromatic aldehydes such as benzaldehyde to their acid form (PubMed:>17382292).

Cellular Location

Cell membrane; Lipid-anchor. Note=Primarily in the plasma membrane as well as in some punctate structures in the cytoplasm

Tissue Location

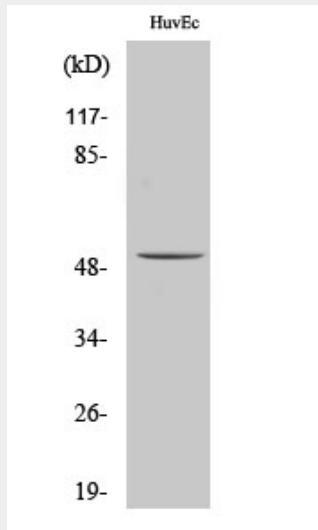
Highest expression in kidney and lung.

ALDH3B1 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ALDH3B1 Polyclonal Antibody - Images



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

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.