

ALDH3B1 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3241a**Specification**

ALDH3B1 Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	P43353
Other Accession	NP_000685.1 , 221
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	51840

ALDH3B1 Antibody (internal region) - Additional Information**Gene ID** 221**Other Names**

Aldehyde dehydrogenase family 3 member B1, 1.2.1.5, Aldehyde dehydrogenase 7, ALDH3B1, ALDH7

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ALDH3B1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

ALDH3B1 Antibody (internal region) - 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, 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

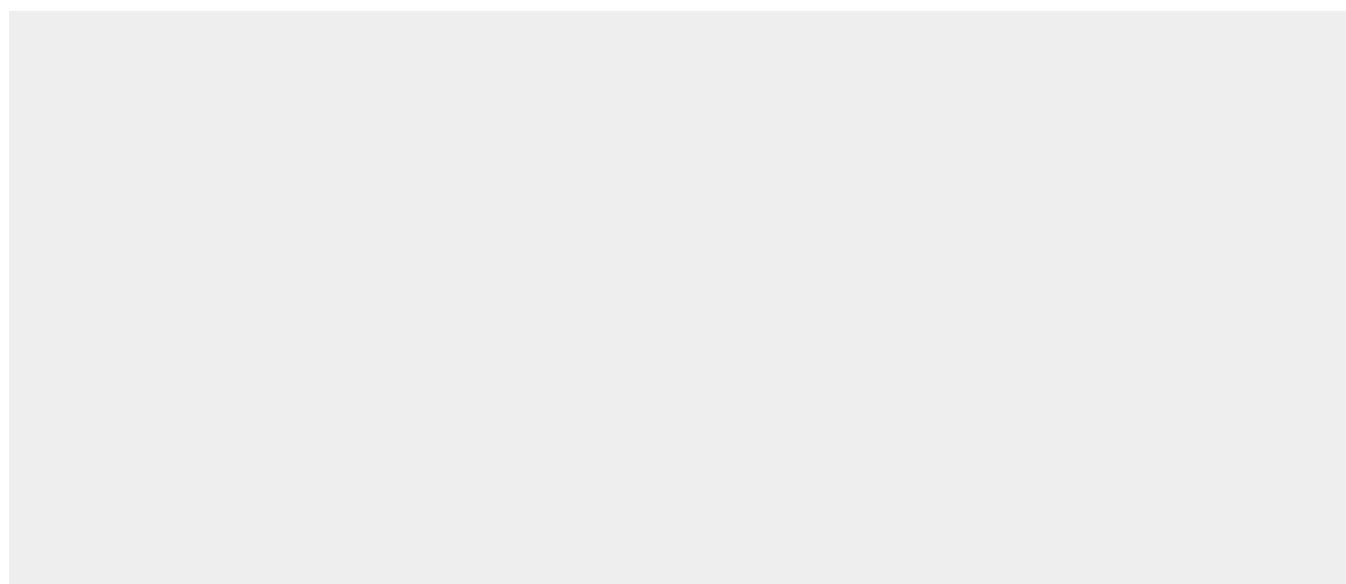
Highest expression in kidney and lung.

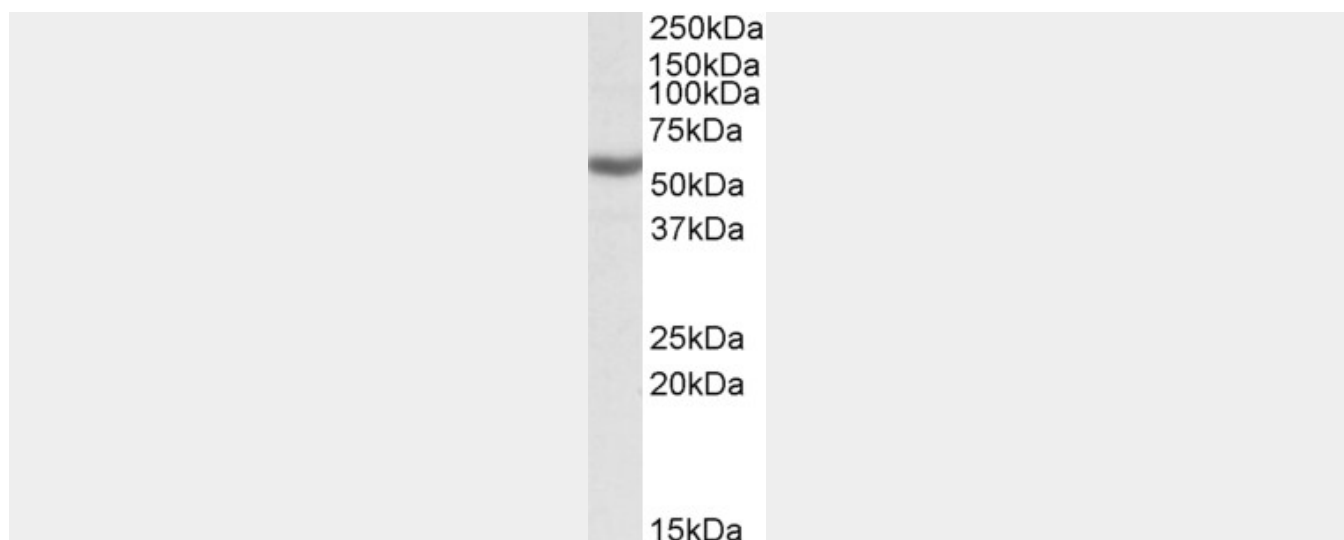
ALDH3B1 Antibody (internal region) - Protocols

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 Antibody (internal region) - Images





AF3241a (0.3 µg/ml) staining of K562 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

ALDH3B1 Antibody (internal region) - Background

This antibody is expected to recognize isoform a (NP_000685.1) only. This antibody is not expected to cross react with ALDH3B2.

Reported variants represent identical protein: NP_000685.1, NP_001154945.1

ALDH3B1 Antibody (internal region) - References

Evidence of epistasis between the catechol-O-methyltransferase and aldehyde dehydrogenase 3B1 genes in paranoid schizophrenia. Wang Y, Hu Y, Fang Y, Zhang K, Yang H, Ma J, Xu Q, Shen Y, Biological psychiatry 2009 Jun 65 (12): 1048-54. PMID: 19159868