

ALDH3B1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8706C

Specification

ALDH3B1 Antibody (Center) - Product Information

Application	IHC-P, WB,E
Primary Accession	P43353
Other Accession	Q5XI42 , E9Q3E1
Reactivity	Human
Predicted	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	334-360

ALDH3B1 Antibody (Center) - Additional Information

Gene ID 221

Other Names

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

Target/Specificity

This ALDH3B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 334-360 amino acids from the Central region of human ALDH3B1.

Dilution

IHC-P~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

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

ALDH3B1 Antibody (Center) - 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

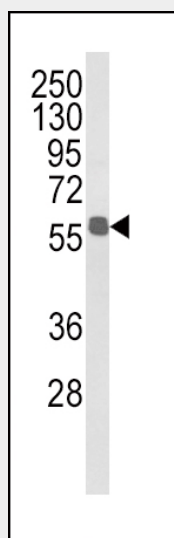
Highest expression in kidney and lung.

ALDH3B1 Antibody (Center) - Protocols

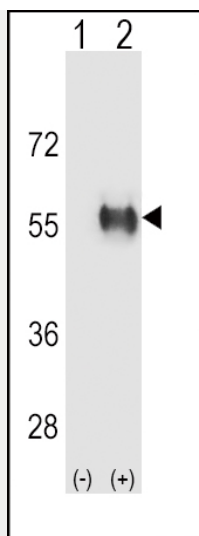
Provided below are standard protocols that you may find useful for product applications.

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

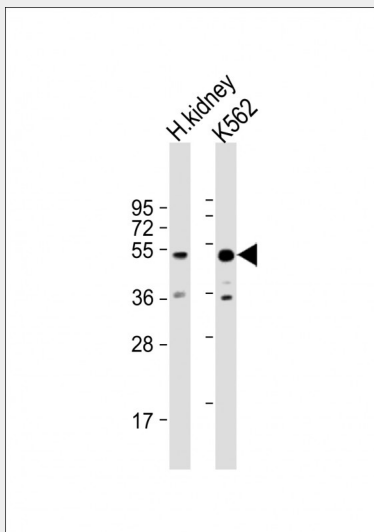
ALDH3B1 Antibody (Center) - Images



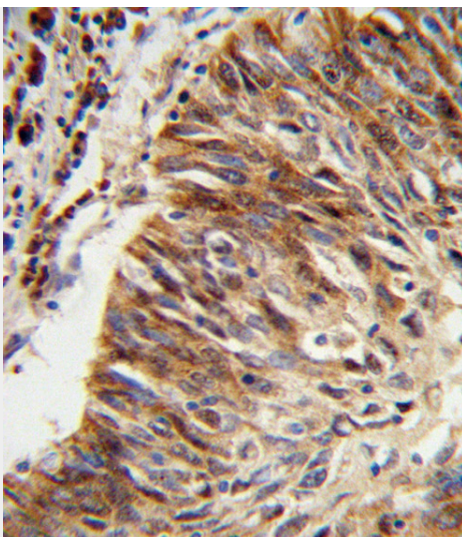
Western blot analysis of ALDH3B1 Antibody (Center) (Cat. #AP8706c) in MDA-MB231 cell line lysates (35ug/lane). ALDH3B1 (arrow) was detected using the purified Pab.



Western blot analysis of ALDH3B1 (arrow) using rabbit polyclonal ALDH3B1 Antibody (Center) (Cat. #AP8706c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ALDH3B1 gene.



All lanes : Anti-ALDH3B1 Antibody (Center) at 1:1000 dilution Lane 1: human kidney lysate Lane 2: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 52 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human lung carcinoma reacted with ALDH3B1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ALDH3B1 Antibody (Center) - Background

The aldehyde dehydrogenases are a family of isozymes that may play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation.

ALDH3B1 Antibody (Center) - References

Marchitti, S.A., et.al., Biochem. Biophys. Res. Commun. 356 (3), 792-798 (2007)

ALDH3B1 Antibody (Center) - Citations

- [Aldehyde dehydrogenases contribute to skeletal muscle homeostasis in healthy, aging, and Duchenne muscular dystrophy patients](#)