

Anti-ALDH3A1 Antibody
Catalog # ABO11380

Specification

Anti-ALDH3A1 Antibody - Product Information

Application	WB, IHC
Primary Accession	P30838
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Aldehyde dehydrogenase, dimeric NADP-preferring(ALDH3A1) detection. Tested with WB, IHC-P in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ALDH3A1 Antibody - Additional Information

Gene ID 218

Other Names

Aldehyde dehydrogenase, dimeric NADP-preferring, 1.2.1.5, ALDHIII, Aldehyde dehydrogenase 3, Aldehyde dehydrogenase family 3 member A1, ALDH3A1, ALDH3

Calculated MW

50395 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Cytoplasm.

Tissue Specificity

High levels in stomach, esophagus and lung; low level in the liver and kidney.

Protein Name

Aldehyde dehydrogenase, dimeric NADP-preferring

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human ALDH3A1(440-453aa KVRYPSPAKMTQH).

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Anti-ALDH3A1 Antibody - Protein Information

Name ALDH3A1

Synonyms ALDH3

Function

ALDHs play a major role in the detoxification of alcohol- derived acetaldehyde (Probable). They are involved in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation (Probable). Oxidizes medium and long chain aldehydes into non-toxic fatty acids (PubMed:1737758). Preferentially oxidizes aromatic aldehyde substrates (PubMed:1737758). Comprises about 50 percent of corneal epithelial soluble proteins (By similarity). May play a role in preventing corneal damage caused by ultraviolet light (By similarity).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P47739}.

Tissue Location

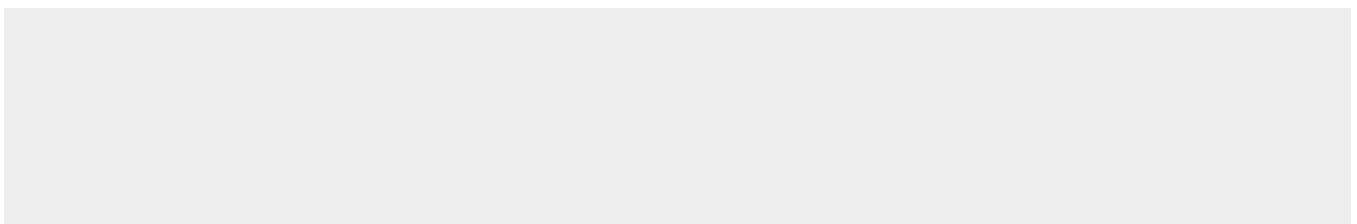
High levels in stomach, esophagus and lung; low level in the liver and kidney

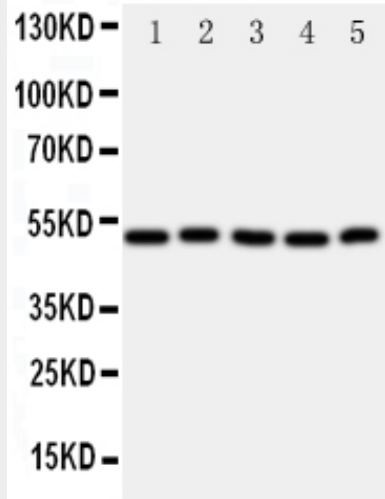
Anti-ALDH3A1 Antibody - Protocols

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

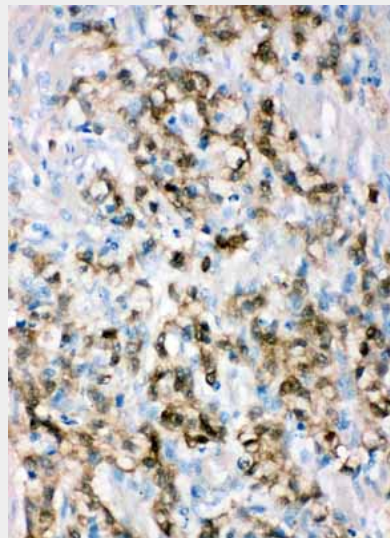
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ALDH3A1 Antibody - Images





Anti-ALDH3A1 antibody, ABO11380, Western blotting All lanes: Anti ALDH3A1 (ABO11380) at 0.5ug/ml Lane 1: SMMC Whole Cell Lysate at 40ug Lane 2: HELA Whole Cell Lysate at 40ug Lane 3: COLO320 Whole Cell Lysate at 40ug Lane 4: MCF-7 Whole Cell Lysate at 40ug Lane 5: A549 Whole Cell Lysate at 40ug Predicted bind size: 50KD Observed bind size: 50KD



Anti-ALDH3A1 antibody, ABO11380, IHC(P) IHC(P): Human Gastric Cancer Tissue

Anti-ALDH3A1 Antibody - Background

ALDH3A1 (Aldehyde Dehydrogenase, Family 3, Subfamily A, Member 1), also known as ALDH3, is an enzyme that in humans is encoded by the ALDH3A1 gene. By in situ hybridization, Hiraoka et al. (1995) mapped the ALDH3 gene to 17p11.2. ALDHs play a major role in the detoxification of alcohol-derived acetaldehyde. They are involved in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. This protein preferentially oxidizes aromatic aldehyde substrates. It may play a role in the oxidation of toxic aldehydes.