10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ALDH3A1 Antibody (C-Terminus)

Rabbit Polyclonal Antibody

Catalog # ALS12979

Specification

ALDH3A1 Antibody (C-Terminus) - Product Information

Application	**WB, IHC**
Primary Accession	P30838
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**50kDa KDa**

ALDH3A1 Antibody (C-Terminus) - 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

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
ALDH3A1 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

ALDH3A1 Antibody (C-Terminus) - 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

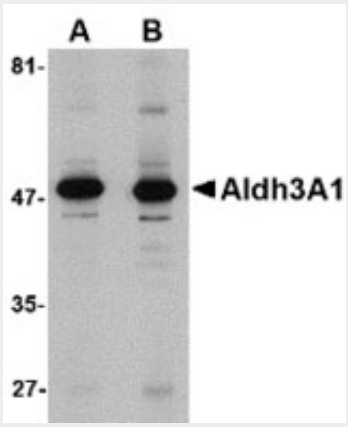
High levels in stomach, esophagus and lung; low level in the liver and kidney

ALDH3A1 Antibody (C-Terminus) - Protocols

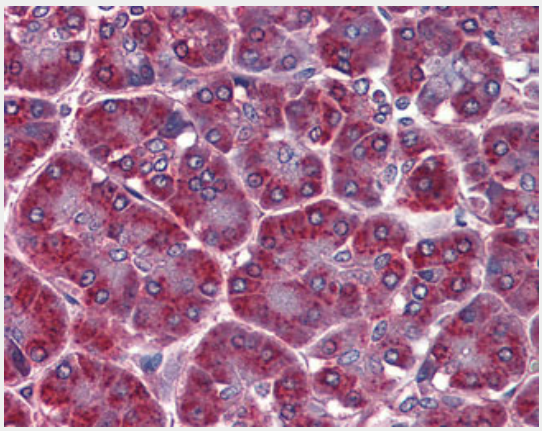
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ALDH3A1 Antibody (C-Terminus) - Images



Western blot of Aldh3A1 in human stomach lysate with Aldh3A1 antibody at (A) 1 and (B) 2 ug/ml.



Anti-ALDH3A1 antibody IHC of human pancreas.

ALDH3A1 Antibody (C-Terminus) - Background

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.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ALDH3A1 Antibody (C-Terminus) - References

Schuuring E.M.D.,et al.Submitted (AUG-1991) to the EMBL/GenBank/DDBJ databases.
Hsu L.C.,et al.J. Biol. Chem. 267:3030-3037(1992).
Hsu L.C.,et al.Adv. Exp. Med. Biol. 328:141-152(1993).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).