

Datasheet for ABIN499263

anti-ALDH3A1 antibody (C-Term)[Go to Product page](#)**1** Image

Overview

Quantity:	0.1 mg
Target:	ALDH3A1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALDH3A1 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Aldh3A1 antibody was raised against a 13 amino acid peptide near the carboxy terminus of the human Aldh3A1.
Isotype:	IgG
Specificity:	This antibody reacts to ALDH3A1.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	ALDH3A1
Alternative Name:	ALDH3 (ALDH3A1 Products)
Background:	Aldh3A1 is a member of the aldehyde dehydrogenase superfamily, a group of NAD(P)(+)-

Target Details

dependent enzymes that catalyze the oxidation of a wide spectrum of aliphatic and aromatic aldehydes. Aldh3A1 is highly expressed in stomach and even more strongly in cornea, representing between 5 to 50 % of the water soluble protein fraction in mammalian corneas. It is thought that Aldh3A1 acts to protect the cornea from UV-induced oxidative stress by not only detoxification of reactive aldehydes by also through the direct absorbtion of UV energy. However, corneas from Aldh3A1-null mice are indistinguishable from those from wild-type mice, mice lacking both Aldh3A1 and Aldh1A1 showed increased cataract formation following UVB exposure, suggesting that Aldh1A1 may be able to compensate for the loss of Aldh3A1. At least two isoforms of Aldh3A1 are known to exist. This antibody is predicted to have no cross-reactivity to Aldh3A2. Synonyms: ALDH3A1, ALDHIII, Aldehyde dehydrogenase, Aldehyde dehydrogenase 3, Aldehyde dehydrogenase family 3 member A1, dimeric NADP-preferring

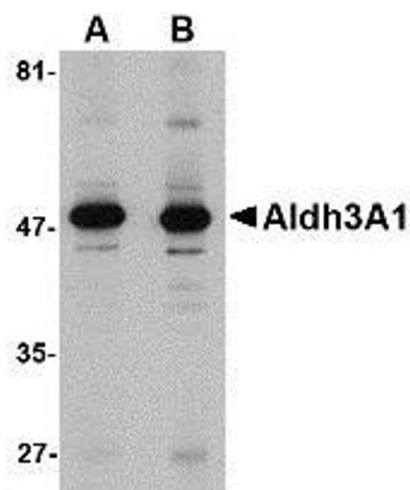
Gene ID:	218
NCBI Accession:	NP_000682
UniProt:	P30838

Application Details

Application Notes:	ELISA. Western Blot: Aldh3A1 antibody can be used for detection of Aldh3A1 at 1 - 2 µg/mL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Western Blotting

Image 1. Western blot analysis of Aldh3A1 in human stomach lysate with AP30043PU-N Aldh3A1 antibody at (A) 1 and (B) 2 µg/ml.