

Datasheet for ABIN6990972
anti-ALDH3A1 antibody (C-Term)



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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), ELISA

Product Details

Immunogen:	Aldh3A1 antibody was raised against a 13 amino acid synthetic peptide near the carboxy terminus of the human Aldh3A1. The immunogen is located within the last 50 amino acids of Aldh3A1.
Isotype:	IgG
Specificity:	At least two isoforms of Aldh3A1 are known to exist. This antibody is predicted to have no cross-reactivity to Aldh3A2.
Purification:	Aldh3A1 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	ALDH3A1
Alternative Name:	Aldh3A1 (ALDH3A1 Products)

Target Details

Background:	Aldh3A1 Antibody: Aldh3A1 is a member of the aldehyde dehydrogenase superfamily, a group of NAD(P)(+)-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.
Gene ID:	218
NCBI Accession:	NP_000682
UniProt:	P30838

Application Details

Application Notes:	Aldh3A1 antibody can be used for detection of Aldh3A1 by Western blot at 1 - 2 µg/mL. Antibody validated: Western Blot in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Aldh3A1 Antibody is supplied in 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:	-20 °C,4 °C
Storage Comment:	Aldh3A1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should

not be exposed to prolonged high temperatures.