

Datasheet for ABIN392318
anti-ALDH3A1 antibody (N-Term)



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3 Images

Overview

Quantity:	400 µL
Target:	ALDH3A1
Binding Specificity:	AA 69-99, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALDH3A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	This ALDH3A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 69-99 amino acids from the N-terminal region of human ALDH3A1.
Clone:	RB16829
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	ALDH3A1
Alternative Name:	ALDH3A1 (ALDH3A1 Products)

Target Details

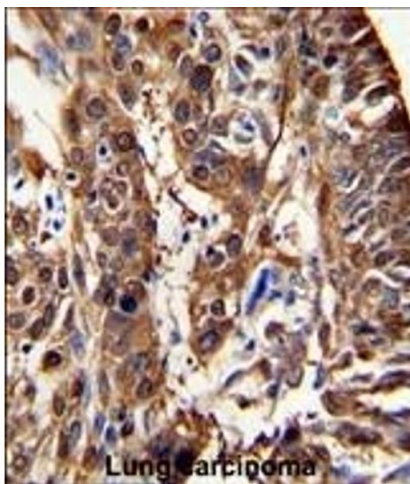
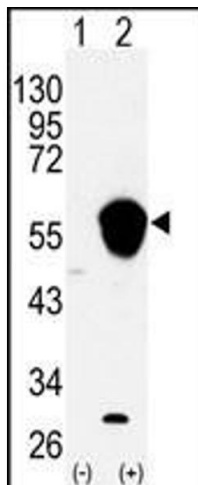
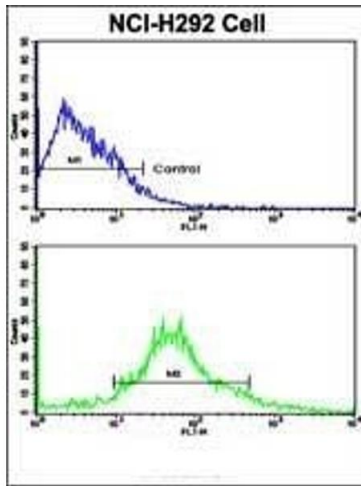
Background:	Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. ALDH3A1 forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. The enzyme is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea.
Molecular Weight:	50395
Gene ID:	218
NCBI Accession:	NP_000682 , NP_001128639 , NP_001128640
UniProt:	P30838

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months



Flow Cytometry

Image 1. Flow cytometric analysis of NCI- cells using ALDH3A1 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Western Blotting

Image 2. Western blot analysis of ALDH3A1 (arrow) using rabbit polyclonal ALDH3A1 Antibody (N-term) (ABIN392318 and ABIN2841969). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the ALDH3A1 gene (Lane 2) (Origene Technologies).

Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin-embedded human lung carcinoma reacted with ALDH3A1 Antibody (N-term), 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.