

Rabbit anti-Human ALDH3A1 Polyclonal Antibody | anti-ALDH3A1 antibody

ALDH3A1 Antibody (N-term)

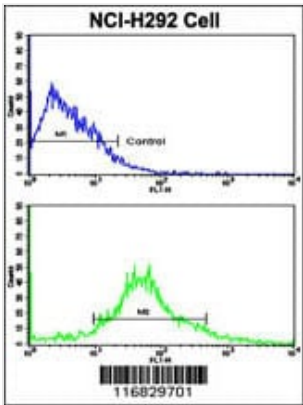
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285929	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

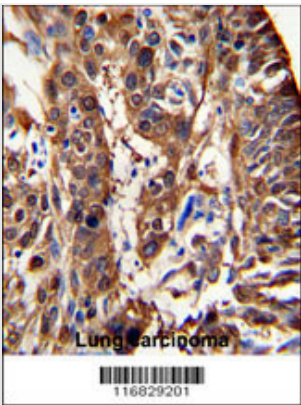
ALDH3A1; Polyclonal Antibody; ALDH3A1 Antibody (N-term); Aldehyde dehydrogenase; dimeric NADP-preferring; ALDHIII; Aldehyde dehydrogenase 3; Aldehyde dehydrogenase family 3 member A1; ALDH3; anti-ALDH3A1 antibody

PRODUCT SPECIFICATIONS

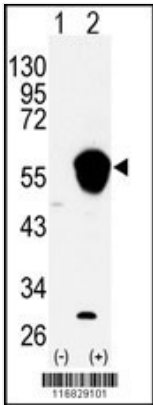
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ALDH3A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 69-99 amino acids from the N-terminal region of human ALDH3A1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	69-99
Sequence Length	453
Applicable Applications for anti-ALDH3A1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of NCI-H292 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.



IHC (Immunohistochemistry)
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.



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

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH3A1 antibody	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.
Product Categories/Family for anti-ALDH3A1 antibody	Cell Biology; Metabolism; Neuroscience; Signal Transduction
References	Glatt,H., Arch. Biochem. Biophys. 477 (2), 196-205 (2008) Ekhart,C., Pharmacogenet. Genomics 18 (6), 515-523 (2008) Giebultowicz,J., Acta Pol Pharm 65 (1), 81-84 (2008)

NCBI AND UNIPROT INFORMATION

NCBI GI #	22907049
NCBI GeneID	218
NCBI Accession #	NP_000682.3; NP_001128639.1; NP_001128640.1
NCBI GenBank Nucleotide #	NM_000691.4

UniProt Accession #	P30838; Q9BT37; A8K828
Molecular Weight	50395
NCBI Official Full Name	aldehyde dehydrogenase, dimeric NADP-preferring
NCBI Official Synonym Full Names	aldehyde dehydrogenase 3 family, member A1
NCBI Official Symbol	ALDH3A1
NCBI Official Synonym Symbols	ALDH3; ALDHIII
NCBI Protein Information	aldehyde dehydrogenase, dimeric NADP-preferring
UniProt Protein Name	Aldehyde dehydrogenase, dimeric NADP-preferring
UniProt Gene Name	ALDH3A1
UniProt Synonym Gene Names	ALDH3
UniProt Entry Name	AL3A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/aldh3a1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/285929>