SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-ALDH3A1 antibody

Catalog Number: SL15496R

FOR RESEARCH USE ONLY

[DATASHEET]

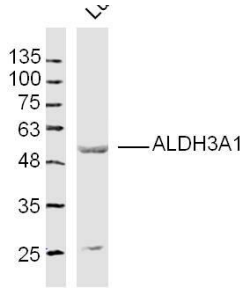
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ALDH3A1
Immunogen:	KLH conjugated synthetic peptide derived from human ALDH3A1: 151-250/453
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, Rat, (predicted: Human, Pig, Horse)
Predicted MW.:	50kDa
Subcellular Location:	cytoplasmic
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. The enzyme encoded by this gene forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. It is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Sep 2008]. **Function:** ALDHs play a major role in the detoxification of alcohol-derived

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

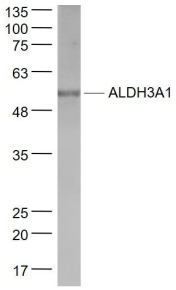
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	acetaldehyde. They are involved in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. This protein preferentially oxidizes aromatic aldehyde substrates. It may play a role in the oxidation of toxic aldehydes. **Subunit:** Homodimer. **Subcellular Location:** Cytoplasm. **Tissue Specificity:** High levels in stomach, esophagus and lung; low level in the liver and kidney. **Similarity:** Belongs to the aldehyde dehydrogenase family. **Database links:** **Entrez Gene:** 218 Human **Entrez Gene:** 11670 Mouse **Entrez Gene:** 25375 Rat Omim: 100660 Human **SwissProt:** P30838 Human **SwissProt:** P47739 Mouse **SwissProt:** P11883 Rat **Unigene:** 531682 Human **Unigene:** 4257 Mouse **Unigene:** 105627 Rat

[VALIDATION IMAGES]



Sample:
Lung (Mouse) Lysate at 40 ug
Primary: Anti-ALDH3A1 (SL15496R)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 50 kD
Observed band size: 50 kD



Sample:
Stomach (Mouse) Lysate at 40 ug
Primary: Anti- ALDH3A1 (SL15496R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 50 kD
Observed band size: 52 kD

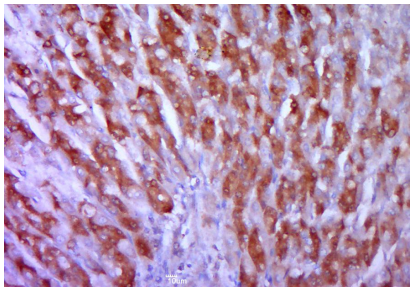
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Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ALDH3A1) Polyclonal Antibody, Unconjugated (SL15496R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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