

## Product datasheet for **TA321185**

### ALDH3A1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: A549 and mouse eye tissue IHC: 50-200 Positive control: Human gastric cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 300 amino acids of human aldehyde dehydrogenase 3 family, member A1
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	50 kDa
Gene Name:	aldehyde dehydrogenase 3 family member A1
Database Link:	<a href="#">NP_000682</a> <a href="#">Entrez Gene 11670 Mouse</a> <a href="#">Entrez Gene 25375 Rat</a> <a href="#">Entrez Gene 218 Human</a> <a href="#">P30838</a>



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**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.

**Synonyms:**

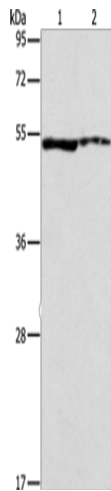
ALDH3; ALDHIII

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Drug metabolism - cytochrome P450, Glycolysis / Gluconeogenesis, Histidine metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Phenylalanine metabolism, Tyrosine metabolism

**Product images:**

Gel: 10%SDS-PAGE

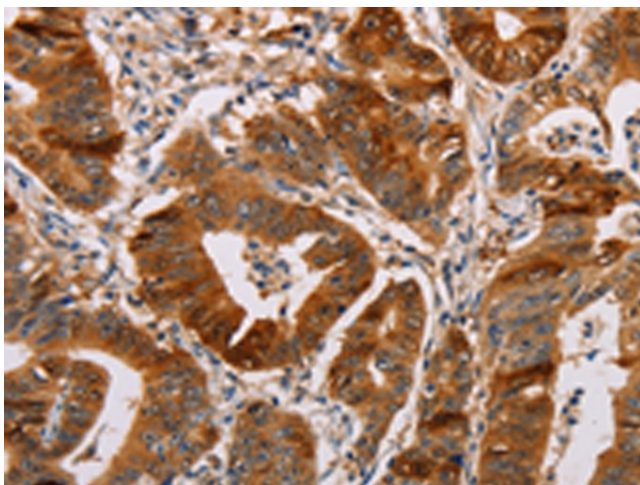
Lysate: 40 µg

Lane 1-2: A549 cells  
mouse eye tissue

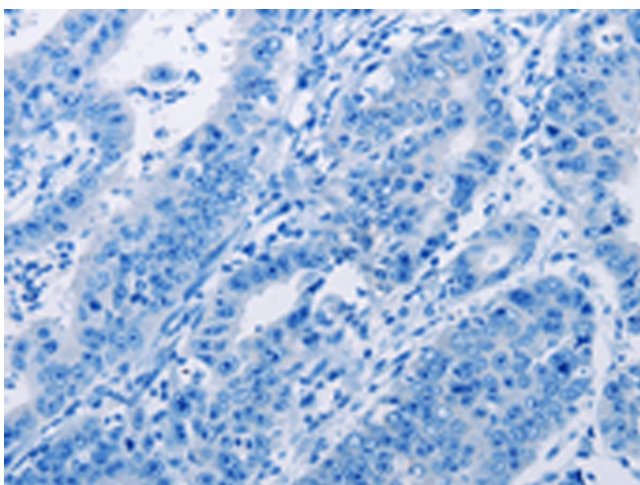
Primary antibody: TA321185 (ALDH3A1 Antibody)  
at dilution 1/750

Secondary antibody: Goat anti rabbit IgG at  
1/8000 dilution

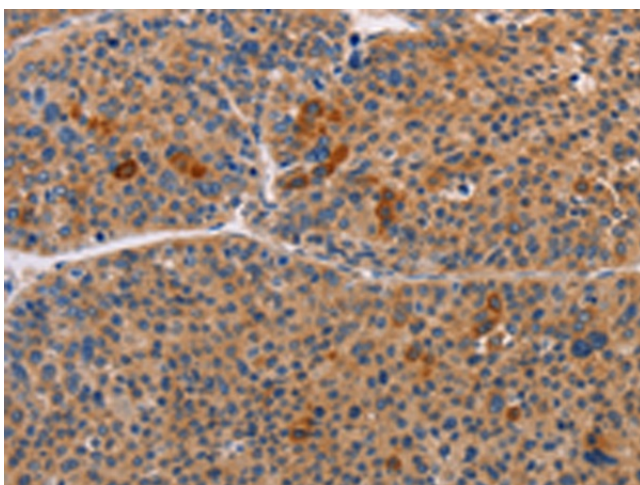
Exposure time: 10 seconds



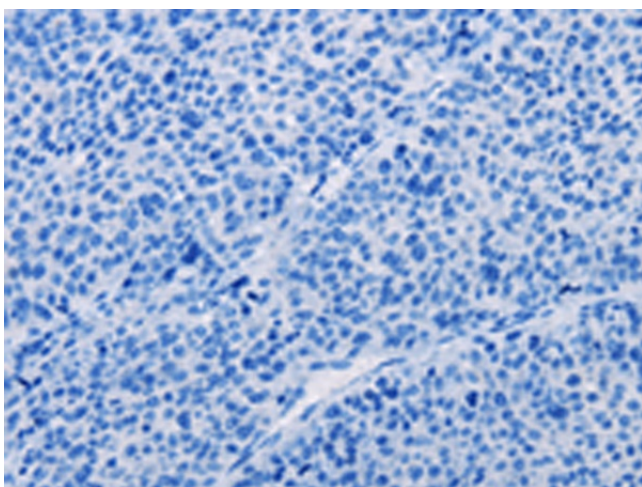
Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA321185 (ALDH3A1 Antibody) at dilution 1/55 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA321185 (ALDH3A1 Antibody) at dilution 1/55, treated with fusion protein. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA321185 (ALDH3A1 Antibody) at dilution 1/55 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA321185 (ALDH3A1 Antibody) at dilution 1/55, treated with fusion protein. (Original magnification:  $\times 200$ )