

## Product datasheet for **TA323585S**

### ALDH9A1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Human fetal liver tissue and hela cells, Human fetal kidney tissue IHC: 50-200 Positive control: Human breast cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 18-32 amino acids of human aldehyde dehydrogenase 9 family, member A1
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
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:	54 kDa
Gene Name:	aldehyde dehydrogenase 9 family member A1
Database Link:	<a href="#">NP_000687</a> <a href="#">Entrez Gene 56752 Mouse</a> <a href="#">Entrez Gene 64040 Rat</a> <a href="#">Entrez Gene 223 Human</a> <a href="#">P49189</a>



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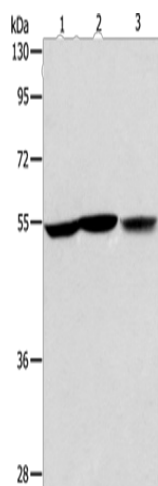
**Background:** This protein belongs to the aldehyde dehydrogenase family of proteins. It has a high activity for oxidation of gamma-aminobutyraldehyde and other amino aldehydes. The enzyme catalyzes the dehydrogenation of gamma-aminobutyraldehyde to gamma-aminobutyric acid (GABA). This isozyme is a tetramer of identical 54-kD subunits. Converts gamma-trimethylaminobutyraldehyde into gamma-butyrobetaine. Catalyzes the irreversible oxidation of a broad range of aldehydes to the corresponding acids in an NAD-dependent reaction.

**Synonyms:** ALDH4; ALDH7; ALDH9; E3; TMABADH

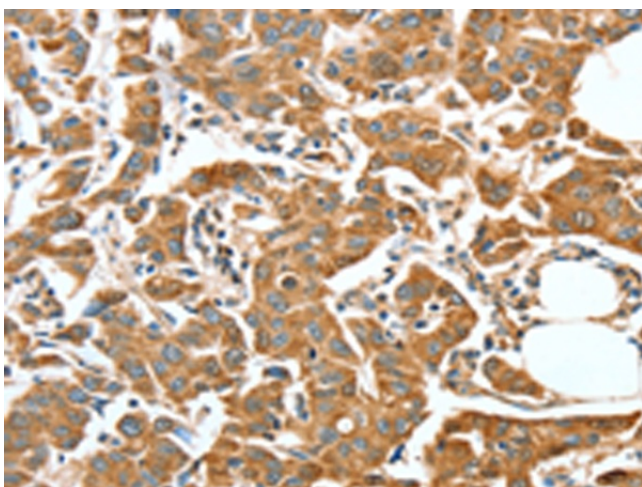
**Protein Families:** Druggable Genome

**Protein Pathways:** Arginine and proline metabolism, Ascorbate and aldarate metabolism, beta-Alanine metabolism, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Limonene and pinene degradation, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation

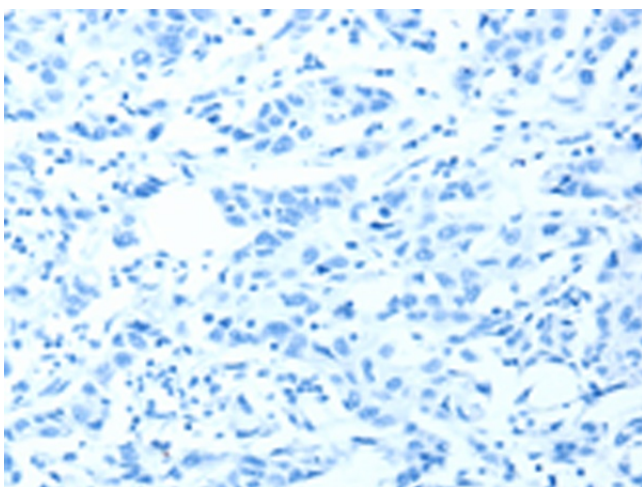
### Product images:



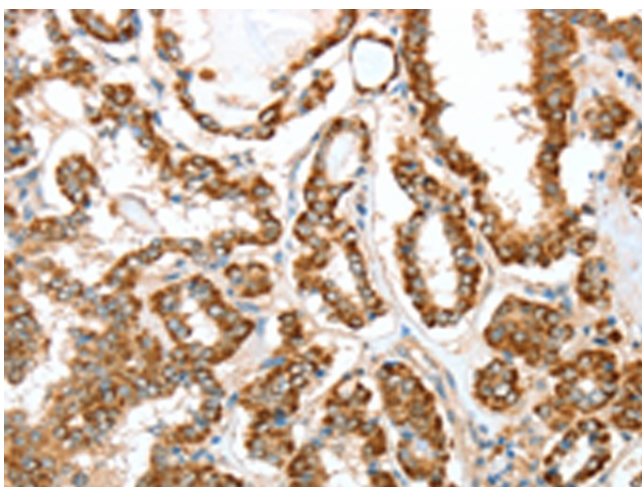
Gel: 8%SDS-PAGE  
Lysate: 40 µg  
Lane 1-3: Human fetal liver tissue  
hela cells  
Human fetal kidney tissue  
Primary antibody: [TA323585] (ALDH9A1  
Antibody) at dilution 1/225  
Secondary antibody: Goat anti rabbit IgG at  
1/8000 dilution  
Exposure time: 30 seconds



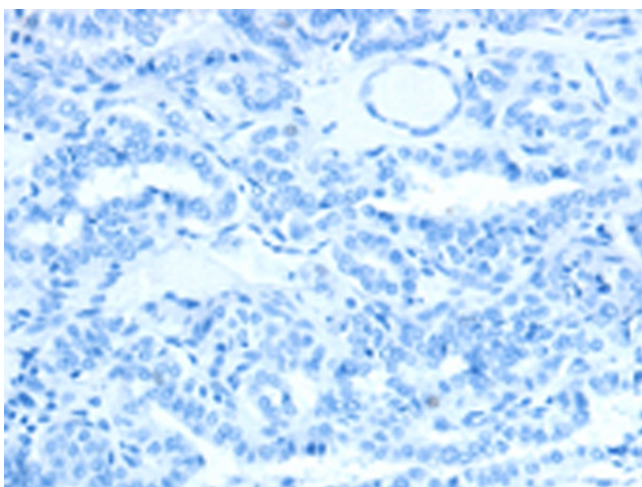
Immunohistochemistry of paraffin-embedded Human breast cancer tissue using [TA323585] (ALDH9A1 Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using [TA323585] (ALDH9A1 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA323585] (ALDH9A1 Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA323585] (ALDH9A1 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification:  $\times 200$ )