

Product datasheet for TA323995S

ALDH4A1 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: WB: 500-2000

WB positive control: Human fetal liver and liver cancer tissue

IHC: 50-200

Positive control: Human breast cancer Predicted cell location: Cytoplasm

Reactivity: Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Fusion protein corresponding to C terminal 250 amino acids of human aldehyde

dehydrogenase 4 family, member A1

Formulation: PBS pH7.3, 0.05% NaN3, 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: 62 kDa

Gene Name: aldehyde dehydrogenase 4 family member A1

Database Link: NP 001154976

Entrez Gene 212647 MouseEntrez Gene 641316 RatEntrez Gene 8659 Human

P30038



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Background: This protein belongs to the aldehyde dehydrogenase family of proteins. This enzyme is a

mitochondrial matrix NAD-dependent dehydrogenase which catalyzes the second step of the proline degradation pathway, converting pyrroline-5-carboxylate to glutamate. Deficiency of this enzyme is associated with type II hyperprolinemia, an autosomal recessive disorder characterized by accumulation of delta-1-pyrroline-5-carboxylate (P5C) and proline.

Alternatively spliced transcript variants encoding different isoforms have been identified for

this gene.

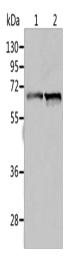
Synonyms: ALDH4; P5CD; P5CDh

Protein Families: Druggable Genome

Protein Pathways: Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Metabolic

pathways

Product images:



Gel: 10%SDS-PAGE Lysate: 40 µg

Lane 1-2: Human fetal liver tissue

Human liver cancer tissue

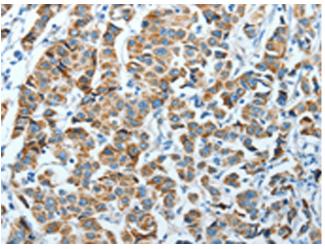
Primary antibody: [TA323995] (ALDH4A1

Antibody) at dilution 1/450

Secondary antibody: Goat anti rabbit IgG at

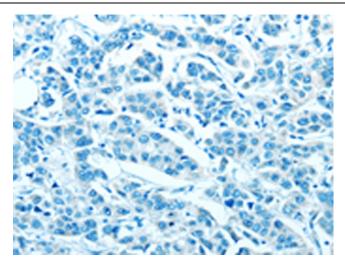
1/8000 dilution

Exposure time: 30 seconds

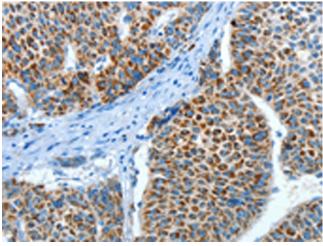


Immunohistochemistry of paraffin-embedded Human breast cancer tissue using [TA323995] (ALDH4A1 Antibody) at dilution 1/45 (Original magnification: ×200)

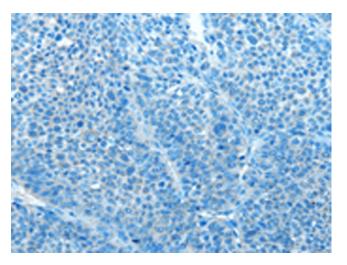




Immunohistochemistry of paraffin-embedded Human breast cancer tissue using [TA323995] (ALDH4A1 Antibody) at dilution 1/45, treated with fusion protein. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA323995] (ALDH4A1 Antibody) at dilution 1/45 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA323995] (ALDH4A1 Antibody) at dilution 1/45, treated with fusion protein. (Original magnification: ×200)