

ALDH4A1 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5317

Specification

ALDH4A1 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	P30038
Other Accession	Q8CHT0 , Q7SY23 , A7YWE4
Reactivity	Human
Predicted	Bovine, Zebrafish, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=62,55,56;M=62 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

ALDH4A1 Antibody (C-term) - Additional Information

Gene ID 8659

Antigen Region
522-556

Other Names

Delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial, P5C dehydrogenase, Aldehyde dehydrogenase family 4 member A1, L-glutamate gamma-semialdehyde dehydrogenase, ALDH4A1, ALDH4, P5CDH

Dilution

WB~~1:1000

Target/Specificity

This ALDH4A1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 522-556 amino acids from the C-terminal region of human ALDH4A1.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ALDH4A1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ALDH4A1 Antibody (C-term) - Protein Information

Name ALDH4A1

Synonyms ALDH4, P5CDH

Function

Irreversible conversion of delta-1-pyrroline-5-carboxylate (P5C), derived either from proline or ornithine, to glutamate. This is a necessary step in the pathway interconnecting the urea and tricarboxylic acid cycles. The preferred substrate is glutamic gamma- semialdehyde, other substrates include succinic, glutaric and adipic semialdehydes.

Cellular Location

Mitochondrion matrix.

Tissue Location

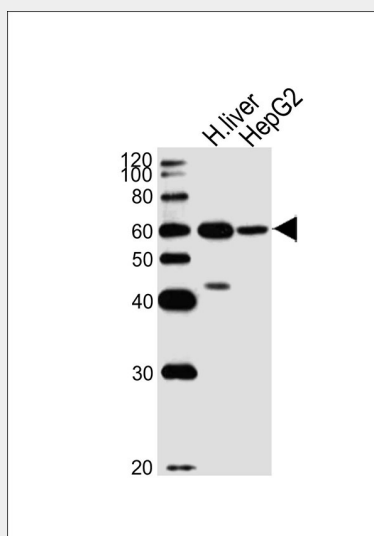
Highest expression is found in liver followed by skeletal muscle, kidney, heart, brain, placenta, lung and pancreas

ALDH4A1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ALDH4A1 Antibody (C-term) - Images



Western blot analysis of lysates from human liver tissue lysate, HepG2 cell line (from left to right), using ALDH4A1 Antibody (C-term) (Cat. #AW5317). AW5317 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

ALDH4A1 Antibody (C-term) - Background

Irreversible conversion of delta-1-pyrroline-5- carboxylate (P5C), derived either from proline or ornithine, to glutamate. This is a necessary step in the pathway interconnecting the urea and tricarboxylic acid cycles. The preferred substrate is glutamic gamma-semialdehyde, other substrates include succinic, glutaric and adipic semialdehydes.

ALDH4A1 Antibody (C-term) - References

Hu C.-A.,et al.J. Biol. Chem. 271:9795-9800(1996).
Stagos D.,et al.Submitted (NOV-2008) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Gregory S.G.,et al.Nature 441:315-321(2006).