

**ALDH4A1 antibody - C-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI12609**

**Specification**

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**ALDH4A1 antibody - C-terminal region - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">P30038</a>
Other Accession	<a href="#">NM_003748</a> , <a href="#">NP_003739</a>
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Dog
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62kDa KDa

**ALDH4A1 antibody - C-terminal region - Additional Information**

**Gene ID** 8659

**Alias Symbol** ALDH4, P5CD, P5CDh, P5CDhL, P5CDhS

**Other Names**

Delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial, P5C dehydrogenase, 1.2.1.88, Aldehyde dehydrogenase family 4 member A1, L-glutamate gamma-semialdehyde dehydrogenase, ALDH4A1, ALDH4, P5CDH

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 100 ul of distilled water. Final anti-ALDH4A1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

**Precautions**

ALDH4A1 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**ALDH4A1 antibody - C-terminal region - 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

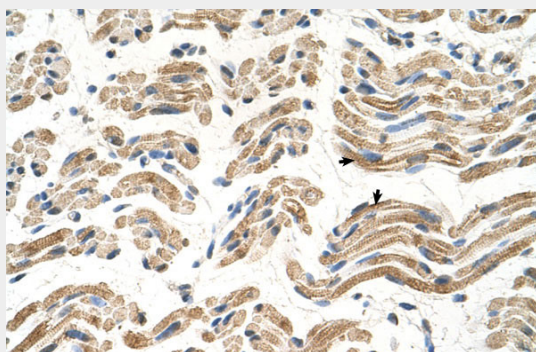
Highest expression is found in liver followed by skeletal muscle, kidney, heart, brain, placenta, lung and pancreas

### ALDH4A1 antibody - C-terminal region - Protocols

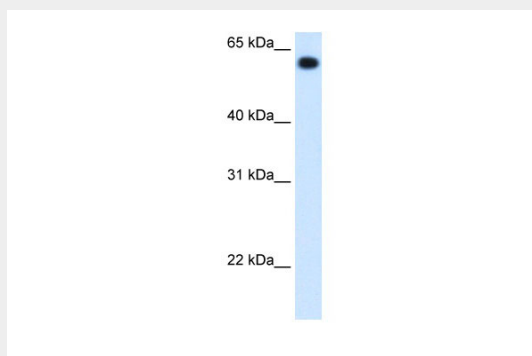
Provided below are standard protocols that you may find useful for product applications.

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

### ALDH4A1 antibody - C-terminal region - Images



Human Muscle



WB Suggested Anti-ALDH4A1 Antibody Titration: 1.25 µg/ml  
Positive Control: Fetal liver cell lysate

### ALDH4A1 antibody - C-terminal region - References

Yoon, K.A., (2004) J. Hum. Genet. 49(3), 134-140 Reconstitution and Storage: For short term use, store at 2-8C upto 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.