

**AL9A1 Antibody - C-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI16136**

**Specification**

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**AL9A1 Antibody - C-terminal region - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P49189</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>54kDa KDa</b>

**AL9A1 Antibody - C-terminal region - Additional Information**

**Gene ID** 223

**Alias Symbol** **ALDH9A1, ALDH4, ALDH7, ALDH9,**  
**Other Names**

4-trimethylaminobutyraldehyde dehydrogenase, TMABADH, 1.2.1.47, Aldehyde dehydrogenase E3 isozyme, Aldehyde dehydrogenase family 9 member A1, 1.2.1.3, Gamma-aminobutyraldehyde dehydrogenase, 1.2.1.19, R-aminobutyraldehyde dehydrogenase, ALDH9A1, ALDH4, ALDH7, ALDH9

**Format**

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

**Reconstitution & Storage**

Add 50  $\mu$ l of distilled water. Final Anti-AL9A1 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**

AL9A1 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**AL9A1 Antibody - C-terminal region - Protein Information**

**Name** ALDH9A1

**Synonyms** ALDH4, ALDH7, ALDH9 {ECO:0000303|PubMed:

**Function**

Converts gamma-trimethylaminobutyraldehyde into gamma- butyrobetaine with high efficiency (in vitro). Can catalyze the irreversible oxidation of a broad range of aldehydes to the corresponding acids in an NAD-dependent reaction, but with low efficiency. Catalyzes the oxidation of aldehydes arising from biogenic amines and polyamines.

**Cellular Location**

Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9JLJ3}. Cytoplasm

#### Tissue Location

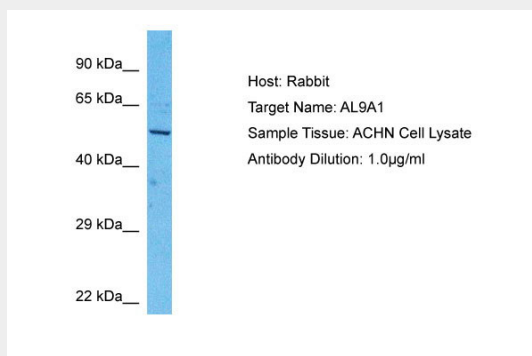
Detected in brain (at protein level) (PubMed:8645224). High expression in adult liver, skeletal muscle, and kidney. Low levels in heart, pancreas, lung and brain (PubMed:8786138) Expressed in all regions of the brain. Expression levels are variable in the different brain areas, with the highest levels in the spinal cord and the lowest in the occipital pole.

#### AL9A1 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](#)

#### AL9A1 Antibody - C-terminal region - Images



Host: Rabbit  
Target Name: AL9A1  
Sample Tissue: ACHN Whole Cell lysates  
Antibody Dilution: 1.0µg/ml

#### AL9A1 Antibody - C-terminal region - Background

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.

#### AL9A1 Antibody - C-terminal region - References

Lin S.W., et al. Genomics 34:376-380(1996).  
Vaz F.M., et al. J. Biol. Chem. 275:7390-7394(2000).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Gregory S.G., et al. Nature 441:315-321(2006).  
Bienvenut W.V., et al. Submitted (MAR-2008) to UniProtKB.