

Rabbit ALDH9A1 Polyclonal Antibody | anti-ALDH9A1 antibody

ALDH9A1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329098	Rabbit	Human, Mouse, Rat Predicted Reactivity: Bovine(100%), Horse(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(100%)	ELISA

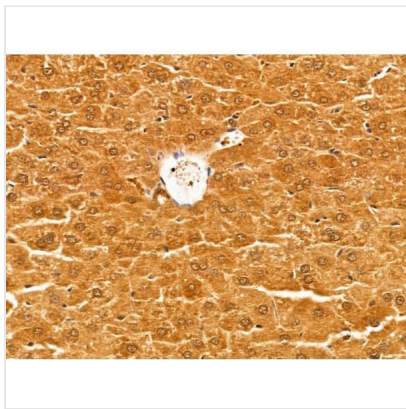
PRODUCT SYNONYMS

ALDH9A1; Polyclonal Antibody; ALDH9A1 Antibody; 4 trimethylaminobutyraldehyde dehydrogenase; 4-trimethylaminobutyraldehyde dehydrogenase; AL9A1_HUMAN; aldehyde dehydrogenase (NAD+); Aldehyde dehydrogenase 9A1; Aldehyde dehydrogenase E3 isozyme; Aldehyde dehydrogenase family 9 member A1; ALDH4; ALDH7; ALDH9; aldh9A1; E3; Gamma aminobutyraldehyde dehydrogenase; Gamma-aminobutyraldehyde dehydrogenase; R aminobutyraldehyde dehydrogenase; R-aminobutyraldehyde dehydrogenase; TMABADH; anti-ALDH9A1 antibody

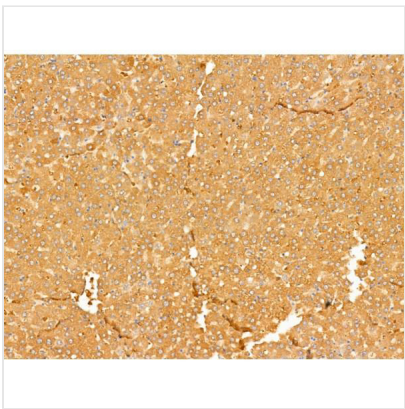
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Bovine(100%), Horse(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	ALDH9A1 Antibody detects endogenous levels of total ALDH9A1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	518
Applicable Applications for anti-ALDH9A1 antibody	ELISA
Immunogen	A synthesized peptide derived from human ALDH9A1, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

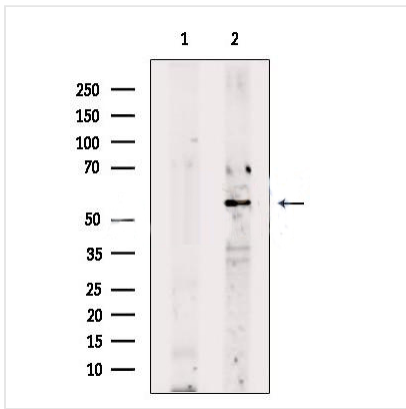
IMAGES



IHC (Immunohistochemistry)
AAA329098 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
AAA329098 at 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from 3T3, using ALDH9A1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH9A1 antibody	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.
	Subcellular Location: Cytoplasm>Cytosol.
	Tissue Specificity: 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.
	Subunit Structure: Homotetramer.
	Similarity: Belongs to the aldehyde dehydrogenase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	115387104
NCBI GeneID	223
NCBI Accession #	NP_000687.3

NCBI GenBank Nucleotide #	NP_000687.3
UniProt Accession #	P49189
Molecular Weight	Observed Molecular Weight: (Observed)53kD. Predicted Molecular Weight: (Calculated)54kDa.
NCBI Official Full Name	4-trimethylaminobutyraldehyde dehydrogenase isoform 1
NCBI Official Synonym Full Names	aldehyde dehydrogenase 9 family member A1
NCBI Official Symbol	ALDH9A1
NCBI Official Synonym Symbols	E3; ALDH4; ALDH7; ALDH9; TMABADH; TMABA-DH; TMABALDH
NCBI Protein Information	4-trimethylaminobutyraldehyde dehydrogenase
UniProt Protein Name	4-trimethylaminobutyraldehyde dehydrogenase
UniProt Gene Name	ALDH9A1
UniProt Synonym Gene Names	ALDH4; ALDH7; ALDH9; TMABADH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/aldh9a1-antibody-elisa/329098>