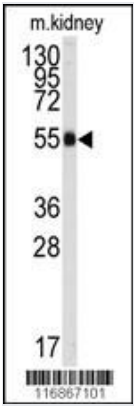
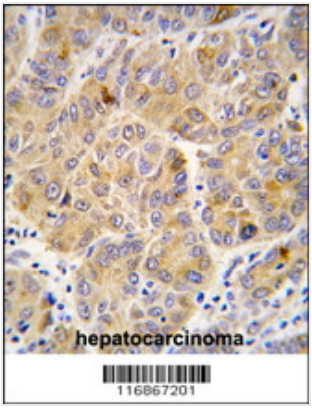
ALDH9A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ALDH9A1, Polyclonal Antibody
Full Product Name	ALDH9A1, CT (R-aminobutyraldehyde Dehydrogenase, Gamma-aminobutyraldehyde Dehydrogenase, Aldehyde Dehydrogenase E3 Isozyme, Aldehyde Dehydrogenase Family 9 Member A1, 4-trimethylaminobutyraldehyde Dehydrogenase, TMABADH, ALDH4, ALDH7, ALDH9) (FITC)
Product Gene Name	anti-ALDH9A1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human ALDH9A1. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer.
Molecular Weight	56kDa
3D Structure	ModBase 3D Structure for P49189
Immunogen	Synthetic peptide selected from the C-terminal region of human ALDH9A1 (KLH).
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-ALDH9A1 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-ALDH9A1 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-ALDH9A1 antibody	IHC: 1:10-1:50 ELISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-ALDH9A1 antibody	MBS6462377 is an antibody targeting ALDH9A1. Also known as ALDH9A1, CT (R-aminobutyraldehyde Dehydrogenase, Gamma-aminobutyraldehyde Dehydrogenase, Aldehyde Dehydrogenase E3 Isozyme, Aldehyde Dehydrogenase Family 9 Member A1, 4-trimethylaminobutyraldehyde Dehydrogenase, TMABADH, ALDH4, ALDH7, ALDH9) (FITC). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-ALDH9A1 antibody	1. Cheung, C.L., Hum. Mol. Genet. 18(4), 679-687 (2009). 2. Vaz, F.M., J. Biol. Chem. 275(10), 7390-7394 (2000). 3. Lin, S.W., Genomics 34(3), 376-380 (1996).
Other Notes	Small volumes of anti-ALDH9A1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-ALDH9A1 antibody
Western blot analysis of anti-ALDH9A1 Antibody (C-term) in mouse kidney tissue lysates (35ug/lane). ALDH9A1(arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-ALDH9A1 antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with ALDH9A1 antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALDH9A1. It may not necessarily be applicable to this product.

NCBI GI #	115387104
NCBI GeneID	223
NCBI Accession #	NP_000687
UniProt Primary Accession #	P49189
UniProt Related Accession #	P49189
GenBank Nucleotide #	NM_000696
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
UniProt Protein Name	4-trimethylaminobutyraldehyde dehydrogenase
UniProt Synonym Protein Names	Aldehyde dehydrogenase E3 isozyme; Aldehyde dehydrogenase family 9 member A1 (EC:1.2.1.3); Gamma-aminobutyraldehyde dehydrogenase (EC:1.2.1.19); R-aminobutyraldehyde dehydrogenase
Protein Family	4-trimethylaminobutyraldehyde dehydrogenase
UniProt Gene Name	ALDH9A1
UniProt Synonym Gene Names	ALDH4; ALDH7; ALDH9; TMABADH
NCBI Protein Information	4-trimethylaminobutyraldehyde dehydrogenase
NCBI Summary for ALDH9A1	This protein belongs to the aldehyde dehydrogenase family of proteins. It has a high activity for oxidation of gamma-aminobutyraldehyde and other amino aldehydes. The enzyme catalyzes the dehydrogenation of gamma-aminobutyraldehyde to gamma-aminobutyric acid (GABA). This isozyme is a tetramer of identical 54-kD subunits. [provided by RefSeq, Jul 2008]
UniProt Comments for ALDH9A1	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.
Research Articles on ALDH9A1	**1.** TMABA-DH colocalized with myosin light chains in cardiac myocytes.

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