

Human Aldehyde Dehydrogenase 9 Family, Member A1 (ALDH9A1) ELISA Kit | ALDH9A1 elisa kit

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CATALOG #
AAA68472

REACTIVITY
Human

PRODUCT SYNONYMS

Aldehyde Dehydrogenase 9 Family; Member A1 (ALDH9A1); Human Aldehyde Dehydrogenase 9 Family; Member A1 (ALDH9A1) ELISA Kit; ALDH4; ALDH7; ALDH9; E3; TMABADH; 4-Trimethylaminobutyraldehyde Dehydrogenase; Aldehyde dehydrogenase E3 isozyme; Gamma-aminobutyraldehyde dehydrogenase; ALDH9A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ALDH9A1. No significant cross-reactivity or interference between ALDH9A1 and analogues was observed.
Sequence Length	518
Samples	Serum, plasma, tissue homogenates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.312-20ng/mL
Sensitivity	<0.102ng/mL.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ALDH9A1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ALDH9A1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ALDH9A1 elisa kit

Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of ALDH9A1 in human serum, plasma, tissue homogenates or other biological fluids.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ALDH9A1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to ALDH9A1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ALDH9A1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of ALDH9A1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	115387104
NCBI GeneID	223
NCBI Accession #	NP_000687.3
NCBI GenBank Nucleotide #	NM_000696.3
UniProt Accession #	P49189; Q5VV90; Q6LCL1; Q9NZT7; B2R6X1; B4DXY7
Molecular Weight	46,455 Da
NCBI Official Full Name	4-trimethylaminobutyraldehyde dehydrogenase
NCBI Official Synonym Full Names	aldehyde dehydrogenase 9 family member A1
NCBI Official Symbol	ALDH9A1
NCBI Official Synonym Symbols	E3; ALDH4; ALDH7; ALDH9; TMABADH
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://stage.aaabiotech.com/human-elisa-kits/aldehyde-dehydrogenase-9-family-member-a1-aldh9a1/68472>