Mouse Aldehyde Dehydrogenase 3 Family, Member A1 (ALDH3A1) ELISA Kit | ALDH3A1 elisa kit

Mouse Aldehyde Dehydrogenase 3 Family, Member A1 (ALDH3A1) ELISA Kit

CATALOG #	REACTIVITY
AAA189825	**Mouse**

PRODUCT SYNONYMS

Aldehyde Dehydrogenase 3 Family; Member A1 (ALDH3A1); Mouse Aldehyde Dehydrogenase 3 Family; Member A1 (ALDH3A1) ELISA Kit; ALDH3; ALDHIII; Aldehyde Dehydrogenase; Dimeric NADP-Preferring; Aldehyde dehydrogenase 3; ALDH3A1/Aldehyde Dehydrogenase 3 Family; Member A1; ALDH3A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of ALDH3A1. No significant cross-reactivity or interference between ALDH3A1 and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Mouse tissue homogenates, cell lysates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	< 0.59ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ALDH3A1 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 ALDH3A1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf Life: 8 months The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ALDH3A1 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to ALDH3A1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to ALDH3A1. 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 ALDH3A1, 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 ALDH3A1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of ALDH3A1 in mouse tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for ALDH3A1 elisa kit	Metabolic pathway

NCBI AND UNIPROT INFORMATION

NCBI GI #	163310771
NCBI GeneID	11670
NCBI Accession #	NP_001106196.1
NCBI GenBank Nucleotide #	NM_001112725.1
UniProt Accession #	P47739; Q9R203; B1ATI7
Molecular Weight	50,481 Da
NCBI Official Full Name	aldehyde dehydrogenase, dimeric NADP-preferring
NCBI Official Synonym Full Names	aldehyde dehydrogenase family 3, subfamily A1
NCBI Official Symbol	Aldh3a1
NCBI Official Synonym Symbols	Ahd4; Aldh; Ahd-4; Aldh3
NCBI Protein Information	aldehyde dehydrogenase, dimeric NADP-preferring; aldehyde dehydrogenase 4; aldehyde dehydrogenase family 3 member A1; dioxin-inducible aldehyde dehydrogenase 3; alcohol dehydrogenase family 3, subfamily A1; aldehyde dehydrogenase 3, stomach cytosolic (cla
UniProt Protein Name	Aldehyde dehydrogenase, dimeric NADP-preferring
UniProt Gene Name	**Aldh3a1**
UniProt Synonym Gene Names	Ahd-4; Ahd4; Aldh3; Aldh4
UniProt Entry Name	AL3A1_MOUSE

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/mouse-elisa-kits/aldehyde-dehydrogenase-3-family-member-a1-aldh3a1/189825