

ALDH2 Polyclonal Antibody | anti-ALDH2 antibody

Anti-ALDH2 Antibody

CATALOG # AAA46572	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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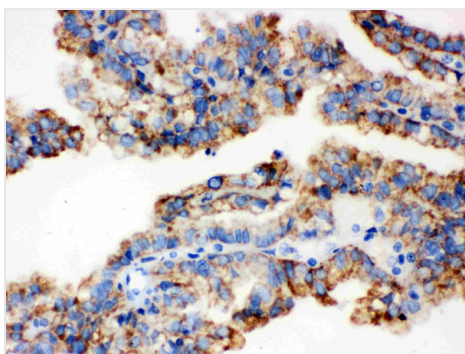
PRODUCT SYNONYMS

ALDH2; Polyclonal Antibody; Anti-ALDH2 Antibody; Aldehyde dehydrogenase; Acetaldehyde dehydrogenase 2; Aldehyde dehydrogenase 2 family (mitochondrial); Aldehyde dehydrogenase 2 family; Aldehyde dehydrogenase mitochondrial; mitochondrial; ALDH 2; ALDH class 2; ALDH E2; ALDH-E2; Aldh2; ALDH2_HUMAN; ALDHI; ALDM; Liver mitochondrial ALDH; MGC1806; Mitochondrial aldehyde dehydrogenase 2; MS767; Nucleus encoded mitochondrial aldehyde dehydrogenase 2 antibody; aldehyde dehydrogenase 2 family (mitochondrial); anti-ALDH2 antibody

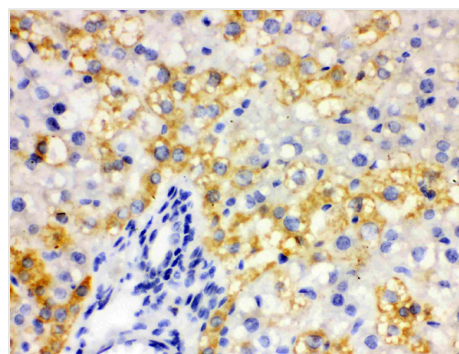
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	517
Applicable Applications for anti-ALDH2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ALDH2 (18-48aa SAAATQAVPAPNQQPEVFCNQIFINNEWHDA), different from the related mouse sequence by two amino acids, and from the related rat sequence by one amino acid.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

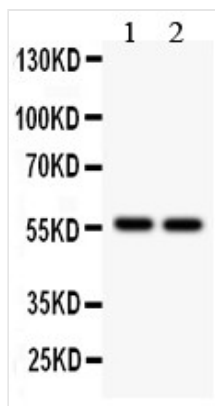
IMAGES



IHC (Immunohistochemistry)
Anti- ALDH2 Picoband antibody, AAA46572, IHC(P)IHC(P): Human Kidney Cancer Tissue



IHC (Immunohistochemistry)
Anti- ALDH2 Picoband antibody, AAA46572, IHC(P)IHC(P): Rat Liver Tissue



WB (Western Blot)

Anti- ALDH2 Picoband antibody, AAA46572, Western blottingAll lanes: Anti ALDH2 (AAA46572) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: Mouse Kidney Tissue Lysate at 50ugPredicted bind size: 56KDObserved bind size: 56KD

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH2 antibody	Description: Rabbit IgG polyclonal antibody for Aldehyde dehydrogenase, mitochondrial(ALDH2) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: ALDH2 (Aldehyde Dehydrogenase 2 Family) is a human gene. The enzyme encoded by this gene belongs to the aldehyde dehydrogenase family of enzymes that catalyze the chemical transformation from acetaldehyde to acetic acid. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. Hsu et al. (1985) assigned the ALDH2 locus to chromosome 12 by means of a cDNA probe and Southern blot analysis of somatic cell hybrids. Using an unbiased proteomic search, Chen et al. (2008) identified mitochondrial ALDH2 as an enzyme whose activation correlated with reduced ischemic heart damage in rodent models. A high-throughput screen identified a small molecule activator of ALDH2, which they called Alda-1, that, when administered to rats before an ischemic event, reduced infarct size by 60%, most likely through its inhibitory effect on the formation of cytotoxic aldehydes.
References	1. Chen, C.-H., Budas, G. R., Churchill, E. N., Disatnik, M.-H., Hurley, T. D., Mochly-Rosen, D. Activation of aldehyde dehydrogenase-2 reduces ischemic damage to the heart. <i>Science</i> 321: 1493-1495, 2008. 2. Goedde, H. W., Agarwal, D. P., Fritze, G., Meier-Tackmann, D., Singh, S., Beckmann, G., Bhatia, K., Chen, L. Z., Fang, B., Lisker, R., Paik, Y. K., Rothhammer, F., Saha, N., Segal, B., Srivastava, L. M., Czeizel, A. Distribution of ADH-2 and ALDH2 genotypes in different populations. <i>Hum. Genet.</i> 88: 344-346, 1992. 3. Hsu, L. C., Yoshida, A., Mohandas, T. Chromosomal assignment of the genes for human aldehyde dehydrogenase 1 (ALDH1) and aldehyde dehydrogenase 2 (ALDH2). (Abstract) <i>Cytogenet. Cell Genet.</i> 40: 656-657, 1985.

NCBI AND UNIPROT INFORMATION

NCBI GI #	25777732
NCBI GeneID	217
NCBI Accession #	NP_000681.2
NCBI GenBank Nucleotide #	NM_000690.3
UniProt Accession #	P05091 ; Q03639 ; Q6IB13 ; Q6IV71 ; B4DW54 ; E7EUE5
Molecular Weight	50,989 Da
NCBI Official Full Name	aldehyde dehydrogenase, mitochondrial isoform 1
NCBI Official Synonym Full Names	aldehyde dehydrogenase 2 family (mitochondrial)
NCBI Official Symbol	ALDH2
NCBI Official Synonym Symbols	ALDM; ALDH1; ALDH-E2
NCBI Protein Information	aldehyde dehydrogenase, mitochondrial

UniProt Protein Name	Aldehyde dehydrogenase, mitochondrial
UniProt Gene Name	ALDH2
UniProt Synonym Gene Names	ALDM
UniProt Entry Name	ALDH2_HUMAN

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/polyclonal/aldh2-antibody-immunohistochemistry-western-blot-elisa/46572>