

Rabbit anti-Human, Rat ALDH2 Polyclonal Antibody | anti-ALDH2 antibody

Anti-ALDH2 antibody

CATALOG # AAA45444	HOST Rabbit	REACTIVITY Human, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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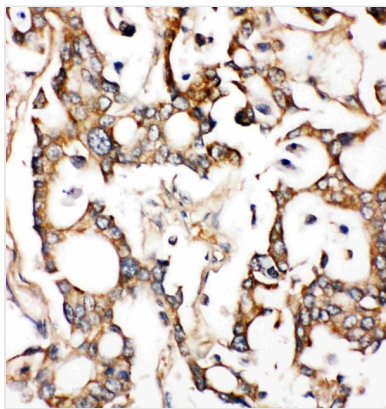
PRODUCT SYNONYMS

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

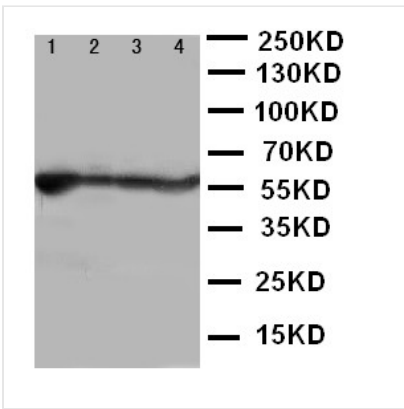
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
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 (18-33aa SAAATQAVPAPNQQPE), different from the related mouse sequence by two amino acids, and from the related rat sequence by one amino acid.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
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 aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
Anti-ALDH2 antibody, AAA45444, IHC(P)IHC(P): Human Liver Cancer Tissue



WB (Western Blot)
Anti-ALDH2 antibody, AAA45444, Western blottingLane 1: Rat Liver Tissue LysateLane 2: Rat Intestine Tissue LysateLane 3: Rat Lung Tissue LysateLane 4: Rat Kidney Tissue Lysate

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, 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	118504
NCBI GeneID	217
UniProt Accession #	P05091; Q03639; Q6IB13; Q6IV71; B4DW54; E7EUE5
Molecular Weight	50,989 Da
NCBI Official Full Name	Aldehyde dehydrogenase, mitochondrial
NCBI Official Synonym Full Names	aldehyde dehydrogenase 2 family (mitochondrial)
NCBI Official Symbol	ALDH2
NCBI Official Synonym Symbols	ALDM; ALDHI; ALDH-E2
NCBI Protein Information	aldehyde dehydrogenase, mitochondrial; ALDH class 2; liver mitochondrial ALDH; acetaldehyde dehydrogenase 2; nucleus-encoded mitochondrial aldehyde dehydrogenase 2
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://www.aaabiotech.com/polyclonal/aldh2-antibody-immunohistochemistry-western-blot-elisa/45444>