

Rabbit ALDH3A2 Polyclonal Antibody | anti-ALDH3A2 antibody

Anti-ALDH3A2 Antibody

CATALOG # AAA46635	HOST Rabbit	REACTIVITY Human, Rat No cross reactivity with other proteins.	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

ALDH3A2; Polyclonal Antibody; Anti-ALDH3A2 Antibody; Aldehyde dehydrogenase; Aldehyde dehydrogenase 10; ALDH10; FALDH; Fatty aldehyde dehydrogenase; Microsomal aldehyde dehydrogenase; SLS; P51648; aldehyde dehydrogenase 3 family member A2; anti-ALDH3A2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	485
Applicable Applications for anti-ALDH3A2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human ALDH3A2 recombinant protein (Position: M1-Q100). Human ALDH3A2 shares 78% amino acid (aa) sequence identity with both mouse and rat ALDH3A2.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 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)

ALDH3A2 was detected in paraffin-embedded sections of human liver cancer tissues using rabbit anti- ALDH3A2 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of ALDH3A2 expression in rat liver extract (lane 1) and 22RV1 whole cell lysates (lane 2). ALDH3A2 at 55KD was detected using rabbit anti- ALDH3A2 Antigen Affinity purified polyclonal antibody at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH3A2 antibody	Rabbit IgG polyclonal antibody for Fatty aldehyde dehydrogenase (ALDH3A2) detection. Background: Fatty aldehyde dehydrogenase (or Long-chain-aldehyde dehydrogenase) is an aldehyde dehydrogenase enzyme that in human is encoded in the ALDH3A2 gene on chromosome 17. ALDH3A2 catalyzes the oxidation of long-chain aliphatic aldehydes into fatty acids. It is known to act on a variety of both saturated and unsaturated aliphatic aldehydes between 6 to 24 carbons in length, as well as dihydrophytal, a 20-carbon branched chain aldehyde. It requires NAD+ as a co-factor. The encoded enzyme is responsible for conversion of the sphingosine 1-phosphate (S1P) degradation product hexadecenal to hexadecenoic acid. ALD3H2 is expressed in the human liver and has been found to localize the microsome fraction inside the cell.
References	1. Kelson TL, Secor McVoy JR, Rizzo WB (1997). "Human liver fatty aldehyde dehydrogenase: microsomal localization, purification, and biochemical characterization". Biochim. Biophys. Acta 1335 (1-2): 99-110. 2. Rogers GR, Markova NG, De Laurenzi V, Rizzo WB, Compton JG (1997). "Genomic organization and expression of the human fatty aldehyde dehydrogenase gene (FALDH)". Genomics 39 (2): 127-35.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557303
NCBI GeneID	224
NCBI Accession #	NP_000373.1
NCBI GenBank Nucleotide #	NM_000382.2
UniProt Accession #	P51648; Q6I9T3; Q93011; Q96J37
Molecular Weight	57,669 Da
NCBI Official Full Name	fatty aldehyde dehydrogenase isoform 2
NCBI Official Synonym Full Names	aldehyde dehydrogenase 3 family member A2
NCBI Official Symbol	ALDH3A2
NCBI Official Synonym Symbols	SLS; FALDH; ALDH10
NCBI Protein Information	fatty aldehyde dehydrogenase
UniProt Protein Name	Fatty aldehyde dehydrogenase
UniProt Gene Name	ALDH3A2
UniProt Synonym Gene Names	ALDH10; FALDH
UniProt Entry Name	AL3A2_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/aldh3a2-antibody-immunohistochemistry-western-blot-elisa/46635>