

Rabbit ALDH7A1 Polyclonal Antibody | anti-ALDH7A1 antibody

Anti-ALDH7A1 Antibody

CATALOG # AAA46821	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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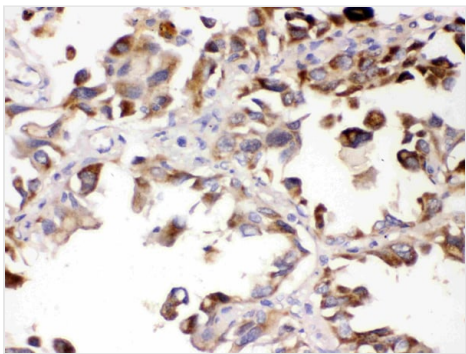
PRODUCT SYNONYMS

ALDH7A1; Polyclonal Antibody; Anti-ALDH7A1 Antibody; Antiquitin 1; Antiquitin; Antiquitin-1; ATQ1; EPD; PDE; P49419; Alpha-aminoacidic semialdehyde dehydrogenase; aldehyde dehydrogenase 7 family member A1; anti-ALDH7A1 antibody

PRODUCT SPECIFICATIONS

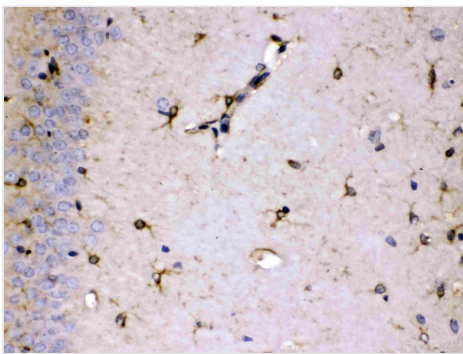
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	539
Applicable Applications for anti-ALDH7A1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ALDH7A1 (333-369aa ARRLFIHESIHDDEVNRLKKAYAQIRVGPNWDPNVLY), different from the related mouse sequence by eight amino acids, and from the related rat sequence by six amino acids.
Preparation and Storage	Store 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



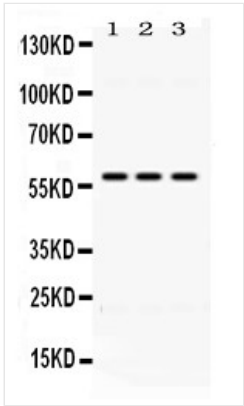
IHC (Immunohistochemisry)

ALDH7A1 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- ALDH7A1 Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohiostchemistry)

ALDH7A1 was detected in paraffin-embedded sections of rat brain tissues using rabbit anti-ALDH7A1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of ALDH7A1 expression in rat liver extract (lane 1), HEPA whole cell lysates (lane 2) and HELA whole cell lysates (lane 3). ALDH7A1 at 58KD was detected using rabbit anti- ALDH7A1 Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH7A1 antibody	Rabbit IgG polyclonal antibody for Alpha-aminoadipic semialdehyde dehydrogenase(ALDH7A1) detection. Background: Aldehyde dehydrogenase 7 family, member A1, also known as ALDH7A1 or antiquitin, is an enzyme that in humans is encoded by the ALDH7A1 gene. The protein encoded by this gene is a member of subfamily 7 in the aldehyde dehydrogenase gene family. These enzymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. This particular member has homology to a previously described protein from the green garden pea, the 26g pea turgor protein. It is also involved in lysine catabolism that is known to occur in the mitochondrial matrix. Recent reports show that this protein is found both in the cytosol and the mitochondria, and the two forms likely arise from the use of alternative translation initiation sites. An additional variant encoding a different isoform has also been found for this gene. Mutations in this gene are associated with pyridoxine-dependent epilepsy. Several related pseudogenes have also been identified.
References	1. Bocker C, Lassen N, Estey T, Pappa A, Cantore M, Orlova VV, Chavakis T, Kavanagh KL, Oppermann U, Vasilioiu V (June 2010). "Aldehyde dehydrogenase 7A1 (ALDH7A1) is a novel enzyme involved in cellular defense against hyperosmotic stress". J. Biol. Chem. 285 (24): 18452-63. 2. Skvorak AB, Robertson NG, Yin Y, Weremowicz S, Her H, Bieber FR, Beisel KW, Lynch ED, Beier DR, Morton CC (December 1997). "An ancient conserved gene expressed in the human inner ear: identification, expression analysis, and chromosomal mapping of human and mouse antiquitin (ATQ1)". Genomics 46 (2): 191-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	188035924
NCBI GeneID	501

NCBI Accession #	NP_001173.2
NCBI GenBank Nucleotide #	NM_001182.4
UniProt Accession #	P49419 ; O14619 ; Q6IPU8 ; Q9BUL4 ; B2R669 ; B4DIC7 ; B4DMA0 ; E7EPT3
Molecular Weight	51,411 Da
NCBI Official Full Name	alpha-aminoadipic semialdehyde dehydrogenase isoform 1
NCBI Official Synonym Full Names	aldehyde dehydrogenase 7 family member A1
NCBI Official Symbol	ALDH7A1
NCBI Official Synonym Symbols	EPD; PDE; ATQ1
NCBI Protein Information	alpha-aminoadipic semialdehyde dehydrogenase
UniProt Protein Name	Alpha-aminoadipic semialdehyde dehydrogenase
UniProt Gene Name	ALDH7A1
UniProt Synonym Gene Names	ATQ1; Alpha-AASA dehydrogenase; P6c dehydrogenase

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/aldh7a1-antibody-immunohistochemistry-western-blot-elisa/46821>