

Rabbit ALDH7A1 Polyclonal Antibody | anti-ALDH7A1 antibody

ALDH7A1 Antibody

CATALOG # AAA323071	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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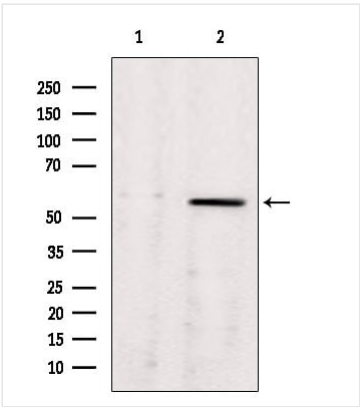
PRODUCT SYNONYMS

ALDH7A1; Polyclonal Antibody; ALDH7A1 Antibody; 26g turgor protein homolog; AL7A1_HUMAN; Aldehyde dehydrogenase 7 A1; Aldehyde dehydrogenase 7 family; member A1; Aldehyde dehydrogenase family 7 member A1; Alpha AASA dehydrogenase; Alpha aminoadipic semialdehyde dehydrogenase; Alpha-AASA dehydrogenase; Alpha-aminoadipic semialdehyde dehydrogenase; Antiquitin 1; Antiquitin; Antiquitin-1; ATQ1; Betaine aldehyde dehydrogenase; Delta1 piperidine 6 carboxylate dehydrogenase; Delta1-piperidine-6-carboxylate dehydrogenase; EPD; P6c dehydrogenase; PDE; anti-ALDH7A1 antibody

PRODUCT SPECIFICATIONS

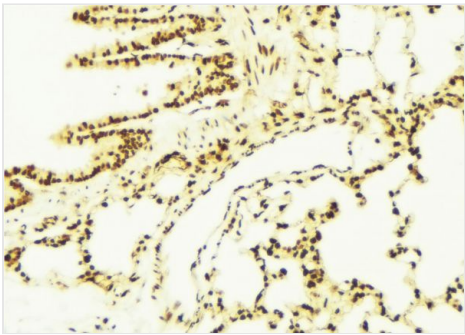
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ALDH7A1 antibody detects endogenous levels of ALDH7A1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	539
Applicable Applications for anti-ALDH7A1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ALDH7A1.
Subcellular Location	Nucleus; Cytosol; Mitochondrion
Tissue Specificity	Abundant in hepatoma cells and fetal cochlea, ovary, eye, heart, adrenal gland, liver and kidney. Low levels present in adult peripheral blood leukocytes and fetal brain, thymus, spleen, skeletal muscle, lung and tongue.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



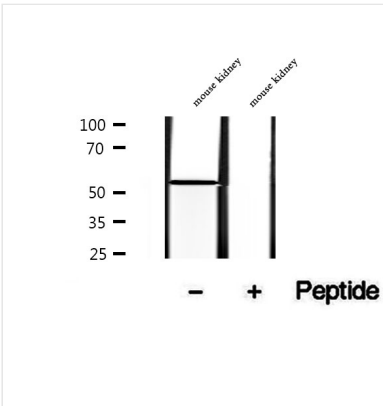
WB (Western Blot)

Western blot analysis of extracts from rat brain, using ALDH7A1 antibody. Lane 1 was treated with the blocking peptide.



IHC (Immunohistochemistry)

AAA323071 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts of mouse kidney tissue, using ALDH7A1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH7A1 antibody	Function: Multifunctional enzyme mediating important protective effects. Metabolizes betaine aldehyde to betaine, an important cellular osmolyte and methyl donor. Protects cells from oxidative stress by metabolizing a number of lipid peroxidation-derived aldehydes. Involved in lysine catabolism. Subunit Structure: Homotetramer. Similarity: Belongs to the aldehyde dehydrogenase family.
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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	Observed: 55 kD Predicted: 59 kDa
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/323071>