

A8629

Leader in Biomolecular Solutions for Life Science



ALDH7A1 Rabbit pAb

Catalog No.: A8629 **1 Publications**

Basic Information

Observed MW

58kDa

Calculated MW

58kDa

Category

Polyclonal Antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human,Mouse,Rat

Background

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.

Recommended Dilutions

WB	1:100 - 1:500
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

501

Swiss Prot

P49419

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 430-539 of human ALDH7A1 (NP_001173.2).

Synonyms

EPD; PDE; ATQ1; ALDH7A1

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

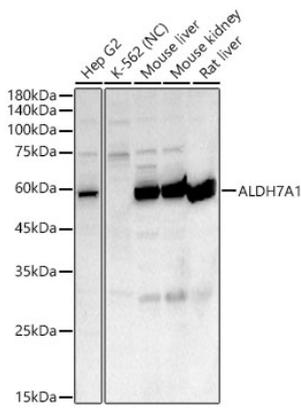
Affinity purification

Storage

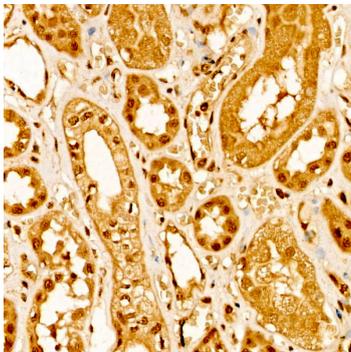
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

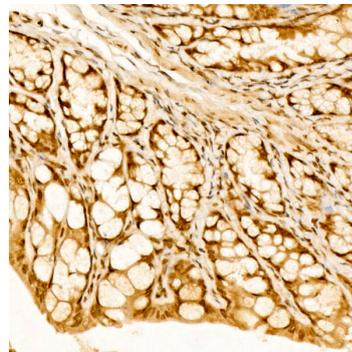
Validation Data



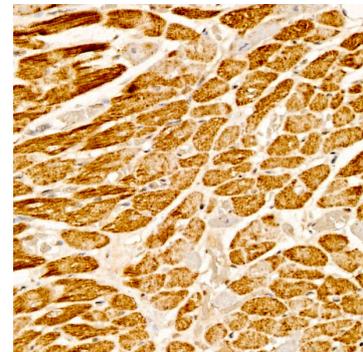
Western blot analysis of various lysates, using ALDH7A1 Rabbit pAb (A8629) at 1:400 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Negative control (NC): K-562.
Exposure time: 75s.



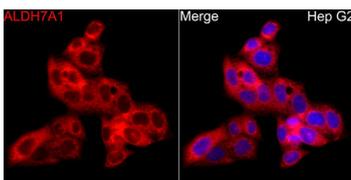
Immunohistochemistry analysis of ALDH7A1 in paraffin-embedded human kidney tissue using ALDH7A1 Rabbit pAb (A8629) at a dilution of 1:50 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of ALDH7A1 in paraffin-embedded mouse colon tissue using ALDH7A1 Rabbit pAb (A8629) at a dilution of 1:50 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of ALDH7A1 in paraffin-embedded rat heart tissue using ALDH7A1 Rabbit pAb (A8629) at a dilution of 1:50 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of HepG2 cells using ALDH7A1 Rabbit pAb (A8629) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.