ALDH7A1 Antibody

PACO56720

Product Information

Size:

50ug

Reactivity:

Human, Rat, Mouse

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IHC, IF, IP

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:500-1:5000, IHC:1:200-1:500, IF:1:50-1:200, IP:1:200-1:2000,

Protein Background:

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.

Gene ID:

ALDH7A1

Uniprot

P49419

Synonyms:

Alpha-aminoadipic semialdehyde dehydrogenase (Alpha-AASA dehydrogenase) (EC 1.2.1.31) (Aldehyde dehydrogenase family 7 member A1) (EC 1.2.1.3) (Antiquitin-1) (Betaine aldehyde dehydrogenase) (EC 1.2.1.8) (Delta1-piperideine-6-carboxylate dehydrogenase) (P6c dehydrogenase), ALDH7A1, ATQ1

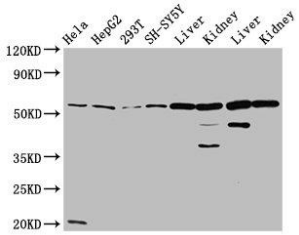
Immunogen:

Recombinant Human Alpha-aminoadipic semialdehyde dehydrogenase protein (386-515AA).

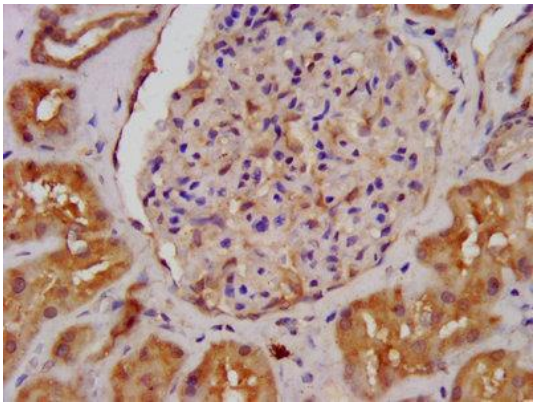
Storage:

Preservative: 0.03% Proclin 300. Constituents: 50% Glycerol, 0.01M PBS, pH 7.4

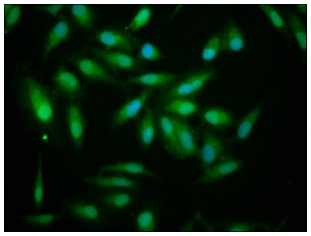
Product Images



Western Blot. Positive WB detected in: Hela whole cell lysate, HepG2 whole cell lysate, 293T whole cell lysate, SH-SY5Y whole cell lysate, Rat liver tissue, Rat kidney tissue, Mouse liver tissue, Mouse kidney tissue. All lanes: ALDH7A1 antibody at 4.7µg/ml. Secondary. Goat polyclonal to rabbit IgG at 1/50000 dilution. Predicted band size: 59, 56, 52 kDa. Observed band size: 59 kDa.



IHC image of PACO56720 diluted at 1:400 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of Hela cells with PACO56720 at 1:133, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).

