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ALDH4A1 Rabbit pAb

Catalog No.: A2595

Basic Information

Observed MW
62kDa

Calculated MW
62kDa

Category
Primary antibody

Applications
ELISA,WB,IF/ICC

Cross-Reactivity
Human, Mouse, Rat

Background

This protein belongs to the aldehyde dehydrogenase family of proteins. This enzyme is a mitochondrial matrix NAD-dependent dehydrogenase which catalyzes the second step of the proline degradation pathway, converting pyrroline-5-carboxylate to glutamate. Deficiency of this enzyme is associated with type II hyperprolinemia, an autosomal recessive disorder characterized by accumulation of delta-1-pyrroline-5-carboxylate (P5C) and proline. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene.

Recommended Dilutions

WB	1:2000 - 1:7000
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID
8659

Swiss Prot
P30038

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 354-563 of human ALDH4A1 (NP_003739.2).

Synonyms
P5CD; ALDH4; P5CDh; ALDH4A1

Contact

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Product Information

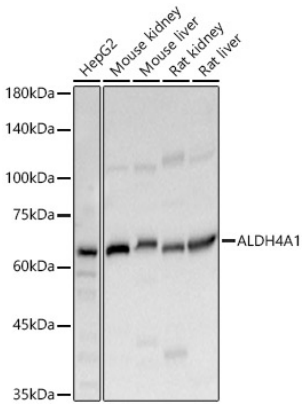
Source
Rabbit

Isotype
IgG

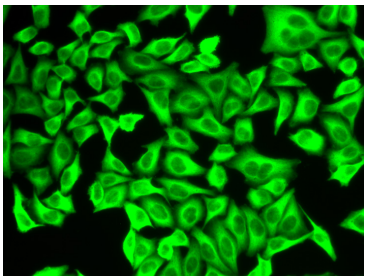
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Validation Data



Western blot analysis of various lysates, using ALDH4A1 Rabbit pAb (A2595) at 1:6000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Immunofluorescence analysis of A549 cells using ALDH4A1 antibody (A2595).

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