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ALDH18A1 Rabbit pAb

Catalog No.: A12247

Basic Information

Observed MW
87kDa

Calculated MW
87kDa

Category
Primary antibody

Applications
WB,ELISA

Cross-Reactivity
Human, Mouse, Rat

Background

This gene is a member of the aldehyde dehydrogenase family and encodes a bifunctional ATP- and NADPH-dependent mitochondrial enzyme with both gamma-glutamyl kinase and gamma-glutamyl phosphate reductase activities. The encoded protein catalyzes the reduction of glutamate to delta1-pyrroline-5-carboxylate, a critical step in the de novo biosynthesis of proline, ornithine and arginine. Mutations in this gene lead to hyperammonemia, hypoornithinemia, hypocitrullinemia, hypoargininemia and hypoprolinemia and may be associated with neurodegeneration, cataracts and connective tissue diseases. Alternatively spliced transcript variants, encoding different isoforms, have been described for this gene.

Recommended Dilutions

WB	1:500 - 1:2000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
5832

Swiss Prot
P54886

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
GSAS; P5CS; PYCS; SPG9; ADCL3; SPG9A; SPG9B; ARCL3A; ALDH18A1

Contact

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Product Information

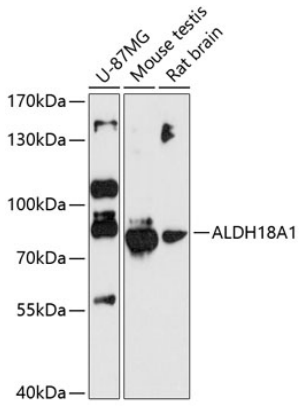
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
(-20□)

Validation Data



Western blot analysis of various lysates using ALDH18A1 Rabbit pAb (A12247) at 1:3000 dilution.
Secondary antibody: HRP-conjugated 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: 90s.

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