

ALDH18A1 polyclonal antibody

Catalog: BS61819

Host: Rabbit

Reactivity: Human, Mouse

Background:

Aldehyde dehydrogenases (ALDHs) mediate NADP⁺-dependent oxidation of aldehydes into acids during the detoxification of alcohol-derived acetaldehyde, lipid peroxidation, and metabolism of corticosteroids, biogenic amines and neurotransmitters. ALDH18A1 (aldehyde dehydrogenase 18 family member A1), also known as GSAS (glutamate γ -semialdehyde synthetase), P5CS (δ 1- pyrroline-5-carboxylate synthetase) or PYCS, is the major enzyme involved in proline, arginine and ornithine biosynthesis. Localizing to the inner mitochondrial membrane, ALDH18A1 catalyzes the reduction of glutamate to δ 1- pyrroline-5-carboxylate. Due to alternative splicing events, two isoforms exist for ALDH18A1, differing by only two amino acids. The longer isoform is widely expressed while the shorter isoform predominantly functions in the gut. A mutation in the gene encoding ALDH18A1 results in P5CS deficiency, a disease characterized by progressive joint laxity, neurodegeneration, bilateral subcapsular cataracts and skin hyperelasticity.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 87 kDa

Swiss-Prot:

P54886

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum

by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:2000~1:10000

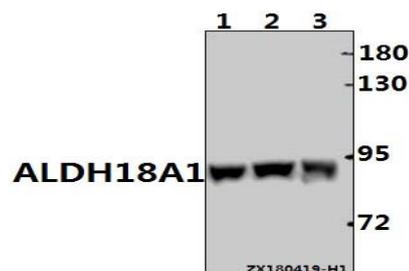
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

ALDH18A1 pAb detects endogenous levels of ALDH18A1 protein.

DATA:



Western blot (WB) analysis of ALDH18A1 pAb at 1:2000 dilution

Lane1: The Embryo tissue lysate of Mouse(40ug)

Lane2: A375 whole cell lysate(40ug)

Lane3: HCT116 whole cell lysate(20ug)

Note:

For research use only, not for use in diagnostic procedure.

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