

ALDH4A1 Polyclonal Antibody

Catalog number: 11604-1-AP

Size: 46 µg/150 µl

Source: Rabbit

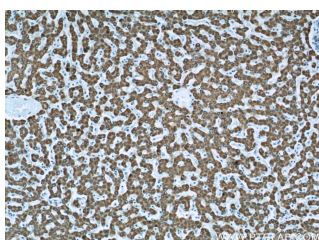
Isotype: IgG

Synonyms:

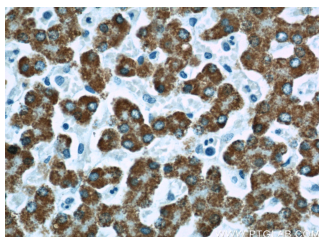
ALDH4A1; ALDH4, ALDH4A1,

P5CDH dehydrogenase, P5CD,

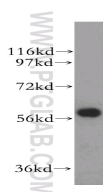
P5CDh, P5CDhL, P5CDhS



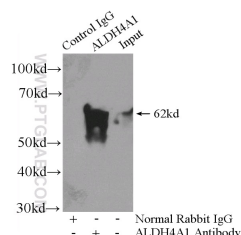
Immunohistochemical of paraffin-embedded human liver using 11604-1-AP (ALDH4A1 antibody) at dilution of 1:100 (under 10x lens)



Immunohistochemical of paraffin-embedded human liver using 11604-1-AP (ALDH4A1 antibody) at dilution of 1:100 (under 40x lens)



human heart tissue were subjected to SDS PAGE followed by western blot with 11604-1-AP (ALDH4A1 antibody) at dilution of 1:400



IP Result of anti-ALDH4A1

(IP:11604-1-AP, 4ug;

Background

ALDH4A1 (Aldehyde dehydrogenase family 4 member A1) is also named as ALDH4, P5CDH, P5C dehydrogenase and belongs to the aldehyde dehydrogenase family. P5CDH is a mitochondrial matrix NAD(+)-dependent dehydrogenase which catalyzes the second step of the proline degradation pathway, converting pyrroline-5-carboxylate to glutamate. Defects in ALDH4A1 are the cause of hyperprolinemia type 2 (HP-2).

Applications

Tested applications:	ELISA, WB, IHC, IP
Cited applications:	WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated ALDH4A1 MW:	563aa, 62 kDa
Observed ALDH4A1 MW:	62kd
Positive WB detected in	Human heart tissue, HepG2 cells, human brain tissue, human liver tissue, human skeletal muscle tissue, K-562 cells, mouse skeletal muscle tissue, mouse small intestine tissue, rat heart tissue
Positive IP detected in	Mouse skeletal muscle tissue
Positive IHC detected in	Human liver tissue, human prostate cancer tissue
Recommended dilution:	WB: 1:500-1:5000 IP: 1:200-1:2000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag2147
GenBank accession number:	BC023600
Gene ID (NCBI):	8659
Full name:	Aldehyde dehydrogenase 4 family, member A1

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

Detection:11604-1-AP 1:800)
with mouse skeletal muscle
tissue lysate 3600ug.