

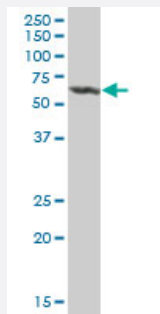
MaxPab®

ALDH4A1 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00008659-B01P

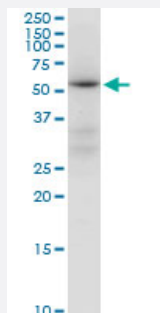
Size 50 ug

Applications



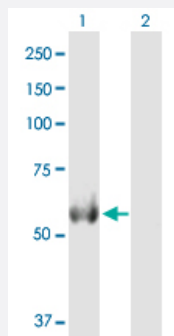
Western Blot (Tissue lysate)

ALDH4A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH4A1 expression in human liver.



Western Blot (Cell lysate)

ALDH4A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH4A1 expression in HepG2.



Western Blot (Transfected lysate)

Western Blot analysis of ALDH4A1 expression in transfected 293T cell line ([H00008659-T01](#)) by ALDH4A1 MaxPab polyclonal antibody.

Lane 1: ALDH4A1 transfected lysate(61.93 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human ALDH4A1 protein.

Immunogen	ALDH4A1 (NP_003739.2, 1 a.a. ~ 563 a.a) full-length human protein.
Sequence	MLLPAPALRRALLSRPWTGAGLRWKHTSSLKVANEPVLAFTQGSPERDALQKALKDLKGRMEAI PCVVGDEEVWTSQVYQVSPFNHGHKVAKFCYADKSLNKAIEAALAARKEWDLKPIADRAQIFL KAADMLSGPRRAEILAKTMVGQGKTVIQAEIDAAELIDFFRFNAKYAVELEGQQPISVPPSTNSTV YRGLEGFVAAISPFNFTAIGGNLAGAPALMGNVVLWKPSDTAMLASYAVYRILREAGLPPNIQFVP ADGPLFGDTVTSSEHLGINFTGSVPTFKHLWKQVAQNLDRLFHTFPRLAGECGGKNFHFVHRSA DVESVVGTLRSAGEYGGQKCSACSRLVPHSLWPQIKGRLLSEHSRIKVGDPEDFGTFFSAVI DAKSFARIKKWLEHARSSPSLTILAGGKCDDSVGYFVEPCIVESKDPQEPIMKEEIFGPVLSVYVY PDDKYKETLQLVDSTTSYGLTGAVFSQDKDVVQEATKVLRNAAGNFYINDKSTGSIVGQQPFQGA RASGTNDKPGGPHYLRWTSPQVIKETHKPLGDWSYAYMQ
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (92); Rat (91)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

ALDH4A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH4A1 expression in human liver.

[Protocol Download](#)

- Western Blot (Cell lysate)

ALDH4A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH4A1 expression in HepG2.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of ALDH4A1 expression in transfected 293T cell line ([H00008659-T01](#)) by ALDH4A1 MaxPab polyclonal antibody.

Lane 1: ALDH4A1 transfected lysate(61.93 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

Gene Info — ALDH4A1

Entrez GeneID [8659](#)

GeneBank Accession# [NM_003748.2](#)

Protein Accession# [NP_003739.2](#)

Gene Name ALDH4A1

Gene Alias ALDH4, P5CD, P5CDh, P5CDhL, P5CDhS

Gene Description aldehyde dehydrogenase 4 family, member A1

Omim ID [239510 606811](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations OTTHUMP00000002544|OTTHUMP00000002545|P5C dehydrogenase|aldehyde dehydrogenase 4A1|mitochondrial delta-1-pyrroline 5-carboxylate dehydrogenase

Pathway

- [Alanine](#)
- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)

Disease

- [Adenocarcinoma](#)
- [Esophageal Neoplasms](#)
- [Hearing Loss](#)