

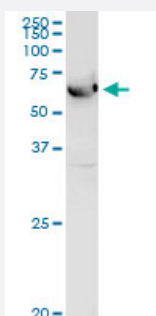
MaxPab®

ALDH4A1 MaxPab rabbit polyclonal antibody (D01)

Catalog # H00008659-D01

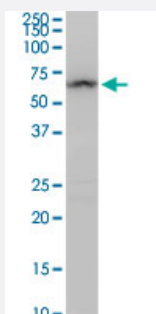
Size 100 uL

Applications



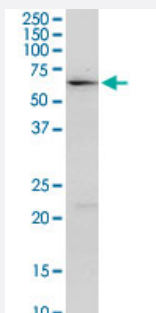
Western Blot (Tissue lysate)

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



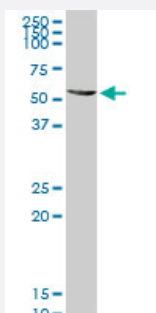
Western Blot (Tissue lysate)

ALDH4A1 MaxPab rabbit polyclonal antibody. Western Blot analysis of ALDH4A1 expression in mouse kidney.



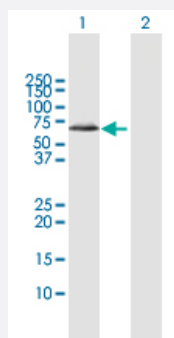
Western Blot (Cell lysate)

ALDH4A1 MaxPab rabbit polyclonal antibody. Western Blot analysis of ALDH4A1 expression in NIH/3T3.



Western Blot (Cell lysate)

ALDH4A1 MaxPab rabbit polyclonal antibody. Western Blot analysis of ALDH4A1 expression in HeLa.

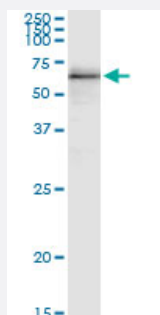


Western Blot (Transfected lysate)

Western Blot analysis of ALDH4A1 expression in transfected 293T cell line ([H00008659-T02](#)) by ALDH4A1 MaxPab polyclonal antibody.

Lane 1: ALDH4A1 transfected lysate(61.70 KDa).

Lane 2: Non-transfected lysate.



Immunoprecipitation

Immunoprecipitation of ALDH4A1 transfected lysate using anti-ALDH4A1 MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with ALDH4A1 purified MaxPab mouse polyclonal antibody (B01P) ([H00008659-B01P](#)).

Specification

Product Description	Rabbit 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 KAADMLSGPRRAEILAKTMVGQKGTIVQAEIDAAELIDFFRFNAKYAVELEGQQPISVPPSTNSTV YRGLEGFVAAISPFNFTAIGGNLAGAPALMGNVVLWKPSDTAMLASYAVYRILREAGLPPNIIQFVP ADGPLFGDTVTSSEHLCGINFTGSVPTFKHLWKQVAQNDRFHTFPRLAGECGGKNFHFVHRSA DVESVSGTLRSAFEYGGQKCSACSRLYVPHSLWPQIKGRLLSEHSRIKVGDPEDFGTFFSAVI DAKSFARIKKWLEHARSSPSLTILAGGKCDDSVGYFVEPCVESKDPQEPIMKEEIFGPVLSVYVY PDDKYKETLQLVDSTTSYGLTGAVFSQDKDVVQEATKVLRNAAGNFYINDKSTGSIVGQQPFGGA RASGTNDKPGGPHYLRWTSPQVIKETHKPLGDWSYAYMQ
Host	Rabbit
Reactivity	Human, Mouse
Interspecies Antigen Sequence	Mouse (92); Rat (91)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	No additive
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

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

[Protocol Download](#)

- Western Blot (Tissue lysate)

ALDH4A1 MaxPab rabbit polyclonal antibody. Western Blot analysis of ALDH4A1 expression in mouse kidney.

[Protocol Download](#)

- Western Blot (Cell lysate)

ALDH4A1 MaxPab rabbit polyclonal antibody. Western Blot analysis of ALDH4A1 expression in NIH/3T3.

[Protocol Download](#)

- Western Blot (Cell lysate)

ALDH4A1 MaxPab rabbit polyclonal antibody. Western Blot analysis of ALDH4A1 expression in HeLa.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of ALDH4A1 expression in transfected 293T cell line ([H00008659-T02](#)) by ALDH4A1 MaxPab polyclonal antibody.

Lane 1: ALDH4A1 transfected lysate(61.70 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of ALDH4A1 transfected lysate using anti-ALDH4A1 MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with ALDH4A1 purified MaxPab mouse polyclonal antibody (B01P) ([H00008659-B01P](#)).

[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](#)