

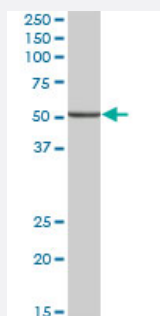
MaxPab®

ALDH9A1 MaxPab mouse polyclonal antibody (B01)

Catalog # H00000223-B01

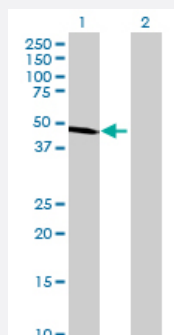
Size 50 uL

Applications



Western Blot (Tissue lysate)

ALDH9A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH9A1 expression in human liver.



Western Blot (Transfected lysate)

Western Blot analysis of ALDH9A1 expression in transfected 293T cell line ([H00000223-T01](#)) by ALDH9A1 MaxPab polyclonal antibody.

Lane 1: ALDH9A1 transfected lysate(54.34 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human ALDH9A1 protein.

Immunogen

ALDH9A1 (ENSP00000271359, 1 a.a. ~ 494 a.a) full-length human protein.

Sequence

MSTGTFVVSQPLNYRGGARVEPADASGTEKAFEPATGRVIATFTCSGEKEVNLAVQNAKAAFKI
WSQKSGMERCRILEAARIEREREDEIATMECINNGKSIFEARLDIDISWQCLEYAGLAASMAGEHI
QLPGGSFGYTRREPLGVCVGIGAWNYPFQIASWKSAPALACGNAMVFKPSPFTPVSALLLAEIYS
EAGVPPGLFNVVQGGAATGQFLCQHPDVAKVSFTGSVPTGMKIMEMSAKGIKPVTLELGGKSPLI
IFSDCDMNNAVKGALMANFLTQGGQVCCNGTRVFVQKEILDKFTEEVVKQTQRIKIGDPLLEDTRM
GPLINRPHLERVLGFVKVAKEQGAKVLCGGDIYPEDPKLKDGYMPCVLTNCRDDMTVCVKEEI
FGPVMSILSFDTEAEVLERANDTTFLAAGVFTRDIQRAHRVVAELQAGTCFINNYNVSPVELPFG
GYKKSFGRENGRVTIEYSQLKTVCEMGDVESAF

Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (91); Rat (90)
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.
Note	For IHC and IF applications, antibody purification with Protein A will be needed prior to use.

Applications

- Western Blot (Tissue lysate)

ALDH9A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH9A1 expression in human liver.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of ALDH9A1 expression in transfected 293T cell line ([H00000223-T01](#)) by ALDH9A1 MaxPab polyclonal antibody.

Lane 1: ALDH9A1 transfected lysate(54.34 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

Gene Info — ALDH9A1

Entrez GeneID	223
GeneBank Accession#	NM_000696.2
Protein Accession#	ENSP00000271359
Gene Name	ALDH9A1
Gene Alias	ALDH4, ALDH7, ALDH9, E3, TMABADH
Gene Description	aldehyde dehydrogenase 9 family, member A1
Omim ID	602733

Gene Ontology

[Hyperlink](#)

Gene Summary

This protein belongs to the aldehyde dehydrogenase family of proteins. It has a high activity for oxidation of gamma-aminobutyraldehyde and other amino aldehydes. The enzyme catalyzes the dehydrogenation of gamma-aminobutyraldehyde to gamma-aminobutyric acid (GABA). This isozyme is a tetramer of identical 54-kD subunits. [provided by RefSeq]

Other Designations

4-trimethylaminobutyraldehyde dehydrogenase|OTTHUMP00000032604|R-aminobutyraldehyde dehydrogenase|aldehyde dehydrogenase (NAD+)|aldehyde dehydrogenase 9A1|aldehyde dehydrogenase E3 isozyme|gamma-aminobutyraldehyde dehydrogenase

Publication Reference

- [Effect of lifelong carnitine supplementation on plasma and tissue carnitine status, hepatic lipid metabolism and stress signalling pathways and skeletal muscle transcriptome in mice at advanced age.](#)

Cheema UB, Most E, Eder K, Ringseis R.

The British Journal of Nutrition 2019 Apr; 1.

Application: WB-Ti, Mouse, Mouse livers

- [Pharmacological doses of niacin stimulate the expression of genes involved in carnitine uptake and biosynthesis and improve the carnitine status of obese Zucker rats.](#)

Couturier A, Ringseis R, Most E, Eder K.

BMC Pharmacology & Toxicology 2014 Jul; 15:37.

Application: WB-Ti, Rat, Liver

- [Regular endurance exercise improves the diminished hepatic carnitine status in mice fed a high-fat diet.](#)

Ringseis R, Mooren FC, Keller J, Couturier A, Wen G, Hirche F, Stangl GI, Eder K, Kruger K.

Mol Nutr Food Res 2011 Jul; 5:193.

Application: WB-Ti, Mouse, Liver

Pathway

- [3-Chloroacrylic acid degradation](#)
- [Arginine and proline metabolism](#)
- [Ascorbate and aldarate metabolism](#)
- [beta-Alanine metabolism](#)
- [Butanoate metabolism](#)

- [Fatty acid metabolism](#)
- [Glycerolipid metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Histidine metabolism](#)
- [Limonene and pinene degradation](#)
- [Lysine degradation](#)
- [Metabolic pathways](#)
- [Propanoate metabolism](#)
- [Pyruvate metabolism](#)
- [Tryptophan metabolism](#)
- [Valine](#)

Disease

- [Dyskinesia](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Osteoporosis](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)