

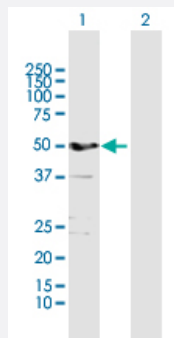
MaxPab®

ALDH3A1 MaxPab rabbit polyclonal antibody (D01)

Catalog # H00000218-D01

Size 100 uL

Applications

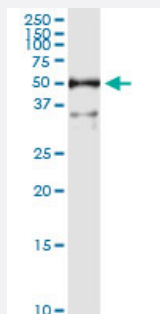


Western Blot (Transfected lysate)

Western Blot analysis of ALDH3A1 expression in transfected 293T cell line ([H00000218-T01](#)) by ALDH3A1 MaxPab polyclonal antibody.

Lane 1: ALDH3A1 transfected lysate(50.40 KDa).

Lane 2: Non-transfected lysate.



Immunoprecipitation

Immunoprecipitation of ALDH3A1 transfected lysate using anti-ALDH3A1 MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with ALDH3A1 purified MaxPab mouse polyclonal antibody (B01P) ([H00000218-B01P](#)).

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human ALDH3A1 protein.

Immunogen

ALDH3A1 (AAH08892.1, 1 a.a. ~ 453 a.a) full-length human protein.

Sequence

MSKISEAVKRARAFFSSGRTRPLQFRIQQLEALQRLIQEQEQELVGALAADLHKNEWNAYYEEVV
YVLEEIEYMIQKLPEWAADPEVEKTPQTQQDELYIHSEPLGVVLVIGTWNYPFNLTIQPMVGAAAG
NAVVLKPSELSENMASSLATIPQYLDKDLYPVINGGVPELTELKERFDHILYTGSTGVGKIIMTAAA
KHLTPVTLELGGKSPCYVDKNCDDLVAACRRIAWGKFMNSGQTCVAPDYILCDPSIQNQIVEKLLK
SLKEFYGEDAKKSRDYGRISARHFQRMGLIEGQKVAYGGTGDAAATRYIPTILTVDVPQSPVMQ
EEIFGPVLPV/CVRSLEEAIQFINQREKPLALYMFSSNDKVIKKMAETSSGGVAANDVIVHITLHSLP
FGGVGNSGMGSYHGKKSFFETFSHRRSCLVRPLMNDEGLKVRYPPSPAKMTQH

Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (81); Rat (82)
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.

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[Protocol Download](#)

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[Protocol Download](#)

Gene Info — ALDH3A1

Entrez GeneID	218
GeneBank Accession#	BC008892.2
Protein Accession#	AAH08892.1
Gene Name	ALDH3A1
Gene Alias	ALDH3, ALDHIII, MGC10406
Gene Description	aldehyde dehydrogenase 3 family, memberA1
Omim ID	100660

Gene Ontology
[Hyperlink](#)
Gene Summary

Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. The enzyme encoded by this gene forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. It is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq]

Other Designations

aldehyde dehydrogenase 3A1|aldehyde dehydrogenase isozyme 3|aldehyde dehydrogenase type III|aldehyde dehydrogenase, dimeric NADP-preferring|stomach aldehyde dehydrogenase

Pathway

- [Drug metabolism - cytochrome P450](#)
- [Glycolysis / Gluconeogenesis](#)
- [Histidine metabolism](#)
- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)
- [Phenylalanine metabolism](#)
- [Tyrosine metabolism](#)

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Drug Toxicity](#)
- [Genetic Predisposition to Disease](#)

- [Kidney Failure](#)
- [NARP](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)