

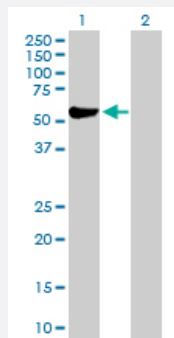
MaxPab®

# ALDH3A1 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00000218-D01P

Size 100 ug

## 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.

## 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                      | MSKISEAVKRARAASFSSGRTRPLQFRIQQLEALQRLIQEQEQELVGALAADLHKNEWNAYYEEVV<br>YVLEEIEYMIQKLPEWAADEPVEKTPQTQQDEL YHSEPLGVVLVIGTWNYPFNLTIQPMVGAAAG<br>NAVVLKPSELSENMASSLATIPQYLDKDLYPVINGGVPETTELLKERFDHILYTGSTGVGKIIMTAAA<br>KHLTPVTLELGKSPCYVDKNCDLDVACRRIAWGKFMNSGQTCVAPDYILCDPSIQNQIVEKLKK<br>SLKEFYGEDAKKSRDYGRISARHFQRMGLIEGQKVAYGGTGDAATRYIAPTILTDVDPQSPVMQ<br>EEIFGPVLPVVCVRSLEEAIQFINQREKPLALYMFSSNDKVIKKMAETSSGGVAANDVIVHITLHSLP<br>FGGVGNSGMGSYHGKKSFEFSSHRRSCLVRPLMNDEGLKVRYPSPSPAKMTQH |
| Host                          | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Reactivity                    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Interspecies Antigen Sequence | Mouse (81); Rat (82)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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.

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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-prefering|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](#)