

DNAxPab

Hard-to-Find
Antibody

ALDH3A1 DNAxPab

Catalog # H00000218-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human ALDH3A1 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MSKISEAVKRARAAFSSGRTRPLQFRIQQLEALQRLIQEQEQELVGALAADLHKNEWNAYYEEVV YVLEEIEYMIQKLPEWAADEPVEKTPQTQQDEL YHSEPLGVVLVIGTWNYPFNLTIQPMVGAAAG NAVVLKPSELSENMASLLATIPQYLDKDLYPVINGGVPETTELLKERFDHILYTGSTGVGKIIMTAAA KHLTPVTLELGGKSPCYVDKNCDLDVACRRIAWGKFMNSGQTCVAPDYILCDPSIQNQIVEKLKK SLKEFYGEDAKKSRDYGRIISARHFQRMGLIEGQKVAYGGTGDAATRYIAPTILTDGDPQSPVMQ EEIFGPVLPVLCVRSLEEAIQFINQREKPLALYMFSSNDKVIKKMAETSSGGVAANDVIVHITLHSLP FGGVGNSGMGSYHGKKSFEFSSHRRSCLVRPLMNDGGLKVRYPSPAKMTQH
Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (80); Rat (81)
Purification	Protein A
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 (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

Gene Info — ALDH3A1

Entrez GeneID [218](#)

GeneBank Accession# [BC004370](#)

Protein Accession# [AAH04370](#)

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](#)