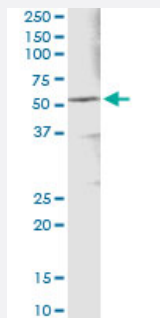


ALDH3A1 monoclonal antibody (M08), clone 2G4

Catalog # H00000218-M08

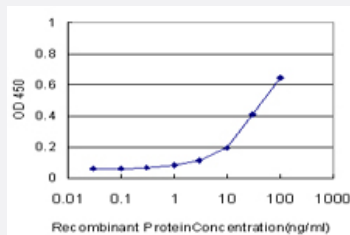
Size 100 ug

Applications



Immunoprecipitation

Immunoprecipitation of ALDH3A1 transfected lysate using anti-ALDH3A1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with ALDH3A1 MaxPab rabbit polyclonal antibody.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ALDH3A1 is approximately 1ng/ml as a capture antibody.

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant ALDH3A1.

Immunogen

ALDH3A1 (AAH04370, 1 a.a. ~ 453 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

MSKISEAVKRARAASFSSGRTRPLQFRIQQLEALQRLIQEQEQELVGALAADLHKNEWNAYYEEVV
YVLEEIEYMIQKLPEWAADPEVEKTPQTQQDEL YHSEPLGVVLVIGTWNYPFNLTIQPMVGAAAG
NAVVLKPSELSENMASLLATIPQYLDKDLYPVINGGVPETTELLKERFDHILYTGSTGVGKIIMTAAA
KHLTPVTLELGKSPCYVDKNCDLVDACRRIAWGKFMNSGQTCVAPDYILCDPSIQNQIVEKLKK
SLKEFYGEDAKKSRDYGRISARHFQRMGLIEGQKVAYGGTGDAATRYIAPTILTDGDPQSPVMQ
EEIFGPVLPV/CVRSLEEAIQFINQREKPLALYMFSSNDKVIKKMAETSSGGVAANDVIVHITLHSLP
FGGVGNSGMGSYHGKKSFFETFSHRRSCLVRPLMNDGGLKVRYPSPAKMTQH

Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (80); Rat (81)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunoprecipitation

Immunoprecipitation of ALDH3A1 transfected lysate using anti-ALDH3A1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with ALDH3A1 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ALDH3A1 is approximately 1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

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-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](#)