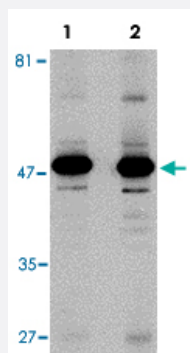


ALDH3A1 polyclonal antibody

Catalog # PAB16545 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of ALDH3A1 in human stomach lysate with ALDH3A1 polyclonal antibody (Cat # PAB16545) at (Lane 1) 1 and (Lane 2) 2 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ALDH3A1.
Immunogen	A synthetic peptide corresponding to C-terminus 13 amino acids of human ALDH3A1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Recommend Usage	Western Blot (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of ALDH3A1 in human stomach lysate with ALDH3A1 polyclonal antibody (Cat # PAB16545) at (Lane 1) 1 and (Lane 2) 2 ug/mL .

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ALDH3A1

Entrez GeneID [218](#)

Protein Accession# [NP_000682](#)

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

Publication Reference

- [Mechanisms involved in the protection of UV-induced protein inactivation by the corneal crystallin ALDH3A1.](#)

Estey T, Cantore M, Weston PA, Carpenter JF, Petrash JM, Vasiliou V.

The Journal of Biological Chemistry 2007 Feb; 282(7):4382.

- [Corneal and stomach expression of aldehyde dehydrogenases: from fish to mammals.](#)

Pappa A, Sophos NA, Vasiliou V.

Chemico-Biological Interactions 2001 Jan; 130-132(1-3):181.

Application: WB-Ti, Pig, Mouse, Rat, Chicken, Turkey, Rabbit, Frog, Zebrafish, T, Eye, Stomach

- [Polymorphisms of human aldehyde dehydrogenases. Consequences for drug metabolism and disease.](#)

Vasiliou V, Pappa A.

Pharmacology 2000 Sep; 61(3):192.

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](#)