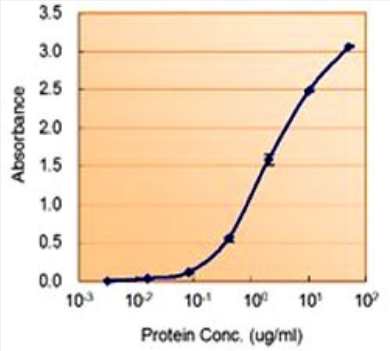
# ALDH2 polyclonal antibody

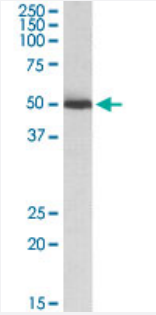
Catalog # PAB18541 Size 100 ug

## Applications




### Sandwich ELISA

ALDH2 polyclonal antibody (Cat # PAB18541) (1.5 ug/mL) as the reporter with the capture rabbit antibody (2.5 ug/mL).




### Western Blot (Tissue lysate)

ALDH2 polyclonal antibody (Cat # PAB18541) (0.03 ug/mL) staining of mouse liver lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## Specification

| | |
|---|---|
| **Product Description** | Goat polyclonal antibody raised against synthetic peptide of ALDH2. |
| **Immunogen** | A synthetic peptide corresponding to internal region of human ALDH2. |
| **Sequence** | C-DETQFKKILGYIN |
| **Host** | Goat |
| **Theoretical MW (kDa)** | 50 |
| **Reactivity** | Human, Mouse, Rat |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **Form** | Liquid |
| **Purification** | Antigen affinity purification |
| **Concentration** | 0.5 mg/mL |
| **Recommend Usage** | ELISA (1:8000)<br>Sandwhich ELISA (1-2 ug/mL)<br>Western Blot (0.03-0.1 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 0.5 mg/mL Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Sandwich ELISA

  ALDH2 polyclonal antibody (Cat # PAB18541) (1.5 ug/mL) as the reporter with the capture rabbit antibody (2.5 ug/mL).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Tissue lysate)

  ALDH2 polyclonal antibody (Cat # PAB18541) (0.03 ug/mL) staining of mouse liver lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

## Gene Info — ALDH2

| | |
|---|---|
| **Entrez GeneID** | 217 |
| **Protein Accession#** | NP_000681.2 |
| **Gene Name** | ALDH2 |
| **Gene Alias** | ALDH-E2, ALDHI, ALDM, MGC1806 |
| **Gene Description** | aldehyde dehydrogenase 2 family (mitochondrial) |
| **Omim ID** | 100650 |
| **Gene Ontology** | Hyperlink |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **Gene Summary** | This protein belongs to the aldehyde dehydrogenase family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of this enzyme, cytosolic and mitochondrial, can be distinguished by their electrophoretic mobilities, kinetic properties, and subcellular localizations. Most Caucasians have two major isozymes, while approximately 50% of Orientals have only the cytosolic isozyme, missing the mitochondrial isozyme. A remarkably higher frequency of acute alcohol intoxication among Orientals than among Caucasians could be related to the absence of the mitochondrial isozyme. This gene encodes a mitochondrial isoform, which has a low Km for acetaldehydes, and is localized in mitochondrial matrix. [provided by RefSeq |
| **Other Designations** | ALDH class 2\|acetaldehyde dehydrogenase 2\|liver mitochondrial ALDH\|mitochondrial aldehyde dehydrogenase 2\|nucleus-encoded mitochondrial aldehyde dehydrogenase 2 |

## Pathway

- 3-Chloroacrylic acid degradation
- Arginine and proline metabolism
- Ascorbate and aldarate metabolism
- beta-Alanine metabolism
- Butanoate metabolism
- Fatty acid metabolism
- Glycerolipid metabolism
- Glycolysis / Gluconeogenesis
- Histidine metabolism
- Limonene and pinene degradation
- Lysine degradation
- Metabolic pathways
- Propanoate metabolism
- Pyruvate metabolism
- Tryptophan metabolism
- Valine

Copyright © 2023 Abnova Corporation. All Rights Reserved.

## Disease

- Acute Disease
- Adenocarcinoma
- Adenoma
- Adenomatous Polyps
- Alcohol Withdrawal Delirium
- Alcoholic Intoxication
- Alcoholic Neuropathy
- Alcoholism
- Alcohol-Related Disorders
- Alzheimer disease
- Angina Pectoris
- Antisocial Personality Disorder
- Asthma
- Atherosclerosis
- Atrophy
- Attention Deficit Disorder with Hyperactivity
- Behavior Control
- Brain Infarction
- Breast cancer
- Breast Neoplasms
- Calcinosis
- Carcinoma
- Cardiovascular Diseases

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Carotid Artery Diseases
- Cell Transformation
- Cocarcinogenesis
- Cognition Disorders
- Colon cancer
- Colonic Neoplasms
- Colonic Polyps
- Colorectal Neoplasms
- Coronary Artery Disease
- Coronary Disease
- Dementia
- Dermatitis
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Neuropathies
- Diabetic Retinopathy
- Digestive System Neoplasms
- Disease Models
- Disease Progression
- Disease Susceptibility
- Diseases in Twins
- DNA Damage
- Drug Hypersensitivity
- Ductus Arteriosus
- Ectodermal Dysplasia
- Edema

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Esophageal Neoplasms
- Fatty Liver
- Femur Head Necrosis
- Flushing
- Gastritis
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Genomic Instability
- Head and Neck Neoplasms
- Heart Diseases
- Helicobacter Infections
- Hepatitis
- Hepatitis C
- Hypersensitivity
- Hypertension
- Infant
- Kidney Failure
- Laryngeal Neoplasms
- Liver Cirrhosis
- Liver Diseases
- Liver Neoplasms
- Lung Neoplasms
- Melanosis
- Mesothelioma
- Metabolic Syndrome X
- Metaplasia

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Micronuclei
- Mouth Neoplasms
- Myocardial Infarction
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasms
- Neuropsychological Tests
- Obesity
- Obstetric Labor
- Occupational Diseases
- Oropharyngeal Neoplasms
- Osteonecrosis
- Osteoporosis
- Pancreatic cancer
- Pancreatic Neoplasms
- Pancreatitis
- Peptic Ulcer
- Perception
- Periodontal Pocket
- Periodontitis
- Pharyngeal Neoplasms
- Pleural Neoplasms
- Precancerous Conditions
- Pregnancy Complications
- Prostatic Neoplasms
- Psychiatric Status Rating Scales

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Psychology
- Psychomotor Performance
- Pulmonary Disease
- Reaction Time
- Rectal Neoplasms
- Retinopathy of Prematurity
- Schizophrenia
- Sensation
- Set (Psychology)
- Stomach Neoplasms
- Substance Withdrawal Syndrome
- Unconsciousness
- Urinary Bladder Neoplasms
- Werner syndrome
- Wounds and Injuries

Copyright © 2023 Abnova Corporation. All Rights Reserved.