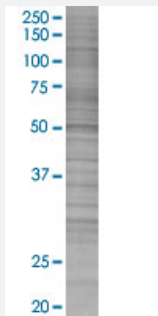


ALDH2 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00000217-T01

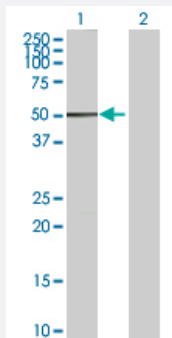
Size 100 uL

Applications



SDS-PAGE Gel

ALDH2 transfected lysate.



Western Blot

Lane 1: ALDH2 transfected lysate (56.40 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-ALDH2 full-length
Host	Human
Theoretical MW (kDa)	56.4
Interspecies Antigen Sequence	Mouse (95)

Quality Control Testing

Transient overexpression cell lysate was tested with Anti-ALDH2 antibody ([H00000217-D01P](#)) by Western Blots.
SDS-PAGE Gel
ALDH2 transfected lysate.
Western Blot
Lane 1: ALDH2 transfected lysate (56.40 KDa)
Lane 2: Non-transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — ALDH2

Entrez GeneID[217](#)**GeneBank Accession#**[NM_000690.2](#)**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](#)**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 K_m 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](#)

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](#)
- [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](#)
- [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](#)
- [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](#)
- [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](#)