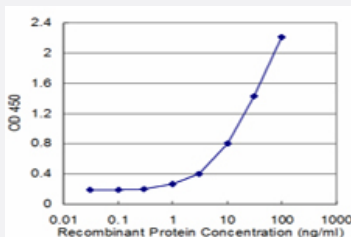


ALDH2 monoclonal antibody (M10), clone 4F10

Catalog # H00000217-M10

Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ALDH2 is approximately 1ng/ml as a capture antibody.

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant ALDH2.
Immunogen	ALDH2 (AAH02967, 408 a.a. ~ 517 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	DGMTIAKEEIFGPVMQILKFKTIEEVVGRANNSTYGLAAVFTKDLDKANYLSQALQAGTVWVNCY DVFGAQSPFGGYKMSGSGRELGEYGLQAYTEVKTVTVKVPQKNS
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (97)
Isotype	IgG2a 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

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ALDH2 is approximately 1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — ALDH2

Entrez GeneID [217](#)

GeneBank Accession# [BC002967](#)

Protein Accession# [AAH02967](#)

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 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](#)

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