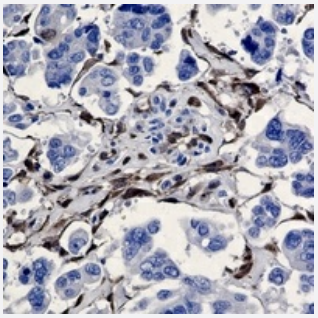
RecomAb™ Sm Size

ALDH1A1 recombinant monoclonal antibody

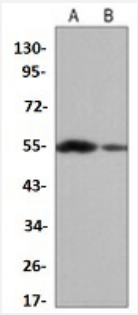
Catalog # RAB09293 Size 50 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of human cholangiocarcinoma formalin fixed paraffin embedded tissue section using ALDH1A1 recombinant monoclonal antibody (Cat # RAB09293). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.38). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Western Blot (Cell lysate)

Western blot analysis of K562 (A), NIH3T3 (B) whole cell lysates with ALDH1A1 recombinant monoclonal antibody (Cat # RAB09293).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human ALDH1A1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide of human ALDH1A1.
Theoretical MW (kDa)	55
Reactivity	Human, Mouse

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Specificity	Recognizes endogenous levels of ALDH1A1 protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Immunoprecipitation (1:10-1:50) Western Blot (1:500-1:1000)
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Western Blot (Cell lysate)

  Western blot analysis of K562 (A), NIH3T3 (B) whole cell lysates with ALDH1A1 recombinant monoclonal antibody (Cat # RAB09293).

Gene Info — ALDH1A1

Entrez GeneID	216
Protein Accession#	P00352
Gene Name	ALDH1A1
Gene Alias	ALDC, ALDH-E1, ALDH1, ALDH11, MGC2318, PUMB1, RALDH1

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Gene Description	aldehyde dehydrogenase 1 family, member A1
Gene Ontology	Hyperlink
Gene Summary	This protein belongs to the aldehyde dehydrogenases 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 cytosolic isoform, which has a high affinity for aldehydes. [provided by RefSeq
Other Designations	ALDH class 1|acetaldehyde dehydrogenase 1|aldehyde dehydrogenase 1, soluble|aldehyde dehydrogenase 1A1|aldehyde dehydrogenase, liver cytosolic|retinal dehydrogenase 1|retinaldehyde dehydrogenase 1

Pathway

- Metabolic pathways
- Retinol metabolism

Disease

- Alcoholism
- Breast cancer
- Breast Neoplasms
- Carcinoma
- Chromosome Deletion
- Cleft Lip
- Cleft Palate
- Disease Models
- Drug Toxicity
- Genetic Predisposition to Disease
- Kidney Failure

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- Lymphoma
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms
- Schizophrenia
- Tobacco Use Disorder

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