

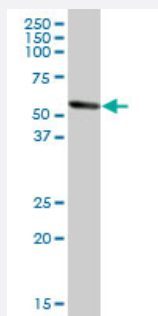
MaxPab®

ALDH1A1 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00000216-B01P

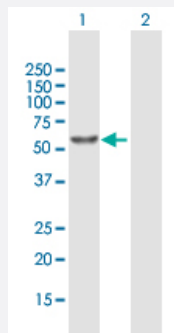
Size 50 ug

Applications



Western Blot (Tissue lysate)

ALDH1A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH1A1 expression in human liver.



Western Blot (Transfected lysate)

Western Blot analysis of ALDH1A1 expression in transfected 293T cell line ([H00000216-T01](#)) by ALDH1A1 MaxPab polyclonal antibody.

Lane 1: ALDH1A1 transfected lysate(55.11 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human ALDH1A1 protein.

Immunogen

ALDH1A1 (NP_000680.2, 1 a.a. ~ 501 a.a) full-length human protein.

Sequence

MSSSGTPDLPVLLTDLKIYTKIFINNEWHDSVSGKKFPVFNPAEEEELCQVEEGDKEDVDKAVK
AARQAFQIGSPWRTMDASERGRLLYKLADLIERDRLLLATMESMNGGKLYSNAYLNDLAGCIKTLR
YCAGWADKIQGRTPIDGNFFTYTRHEPIGVCGQIIPWNFPLVMLWKIGPALSCGNTVVVKPAEQTP
LTALHVASLIKEAGFPFGVNVNPGYGPTAGAAISSHMDIDKVAFTGSTEVGKLIKEAAGKSNLKRV
TLELGKSPCMLADADLDNAVEFAHHGVFYHQGCCIAASRIFVEESYDEFVRRSVERAKKYILG
NPLTPGVTQGPQIDKEQYDKILDIESGKKEGAKLECGGGPWGNKGYFVQPTVFSNVTDDEMRIAK
EEIFGPVQQIMKFKSLDDVIKRANNTFYGLSAGVFTKDIDKAITISSALQAGTVVWNCYGVVSAQCP
FGGFKMSGNGRELGEYGFHEYTEVKTVTVKISQKNS

Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (87); Rat (86)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

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[Protocol Download](#)

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Western Blot analysis of ALDH1A1 expression in transfected 293T cell line ([H00000216-T01](#)) by ALDH1A1 MaxPab polyclonal antibody.

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[Protocol Download](#)

Gene Info — ALDH1A1

Entrez GeneID	216
GeneBank Accession#	NM_000689.3
Protein Accession#	NP_000680.2
Gene Name	ALDH1A1
Gene Alias	ALDC, ALDH-E1, ALDH1, ALDH11, MGC2318, PUMB1, RALDH1
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](#)
- [Lymphoma](#)
- [Neoplasms](#)

- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)