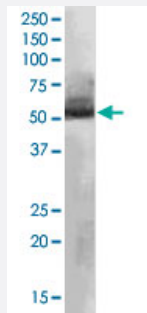


ALDH1A1 polyclonal antibody

Catalog # PAB6018

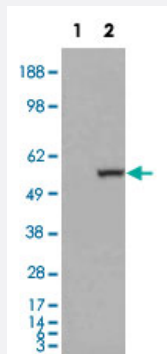
Size 100 ug

Applications



Western Blot (Tissue lysate)

ALDH1A1 polyclonal antibody (Cat # PAB6018) staining (0.03 ug/mL) of human liver lysate (RIPA buffer, 35 ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



Western Blot (Transfected lysate)

HEK293 overexpressing ALDH1A1 and probed with ALDH1A1 polyclonal antibody (Cat # PAB6018) (mock transfection in first lane), tested by Origene.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of ALDH1A1.
Immunogen	A synthetic peptide corresponding to C-terminus of human ALDH1A1.
Sequence	C-EVKTVTVKISQKNS
Host	Goat
Theoretical MW (kDa)	54.9
Reactivity	Human, Mouse, Rat

Specificity	This antibody may cross-react with ALDH1A2 (GeneID 8854) with one residue difference from this design and with ALDH2 (GeneID 217) with two residues difference from this design.
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:16000) Western Blot (0.03-0.1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

ALDH1A1 polyclonal antibody (Cat # PAB6018) staining (0.03 ug/mL) of human liver lysate (RIPA buffer, 35 ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

- Western Blot (Transfected lysate)

HEK293 overexpressing ALDH1A1 and probed with ALDH1A1 polyclonal antibody (Cat # PAB6018) (mock transfection in first lane), tested by Origene.

- Immunohistochemistry

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ALDH1A1

Entrez GeneID	216
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

Publication Reference

- [Developmental expression of aldehyde dehydrogenase in rat: a comparison of liver and lung development.](#)

Yoon M, Madden MC, Barton HA.

Toxicological Sciences 2005 Nov; 89(2):386.

- [Retinoic acid imprints gut-homing specificity on T cells.](#)

Iwata M, Hirakiyama A, Eshima Y, Kagechika H, Kato C, Song SY.

Immunity 2004 Oct; 21(4):527.

Application: IF, IHC-Fr, Mouse, Small intestine, Spleen

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](#)