

Summary

Production Name	ALDH1A1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ALDH1A1
Alternative Names	ALDH1A1; ALDC; ALDH1; PUMB1; Retinal dehydrogenase 1; RALDH 1; RaLDH1; ALDH-E1; ALHDII; Aldehyde dehydrogenase family 1 member A1; Aldehyde dehydrogenase, cytosolic
Gene ID	216.0
SwissProt ID	P00352.The antiserum was produced against synthesized peptide derived from the N-terminal region of human ALDH1A1. AA range:21-70

Application

Dilution Ratio	WB 1:500 - 1:2000 IHC 1:100 - 1:300. ELISA: 1:20000..
Molecular Weight	55kD

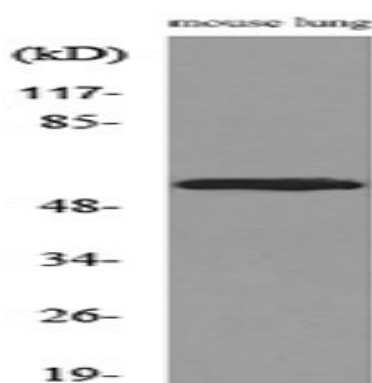
Background

The protein encoded by this gene belongs to the aldehyde dehydrogenase family. Aldehyde dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. There are two major aldehyde dehydrogenase isozymes in the liver, cytosolic and mitochondrial, which are encoded by distinct genes, and can be distinguished by their electrophoretic mobility, kinetic properties, and subcellular localization. This gene encodes the cytosolic isozyme. Studies in mice show that through its role in retinol metabolism, this gene may also be involved in the regulation of the metabolic responses to high-fat diet. [provided by RefSeq, Mar 2011], catalytic activity: Retinal + NAD(+) + H₂O = retinoate + NADH., function: Binds free retinal and cellular retinol-binding protein-bound retinal. Can convert/oxidize retinaldehyde to retinoic acid., pathway: Cofactor metabolism; retinol metabolism., similarity: Belongs to the aldehyde dehydrogenase family., subunit: Homotetramer.,

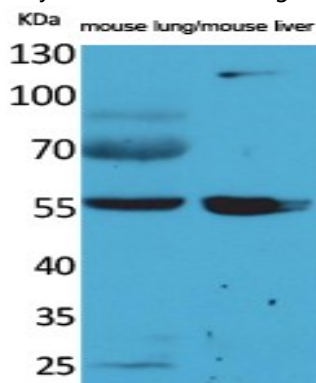
Research Area

Retinol metabolism;

Image Data

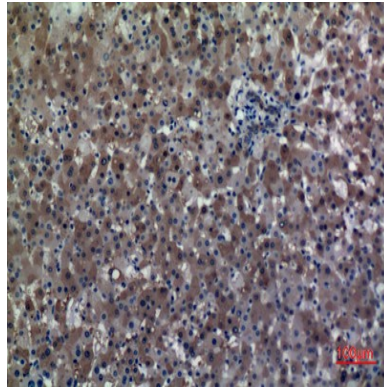


Western blot analysis of lysate from mouse lung, using ALDH1A1 Antibody.

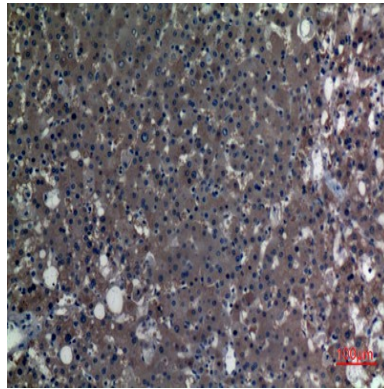


Western Blot analysis of mouse lung, mouse liver cells using ALDH1A1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

Product Name: ALDH1A1 Rabbit Polyclonal Antibody
Catalog #: APRab06758



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100

Note

For research use only.