

**ALDH1A1 Polyclonal Antibody**

<b>Catalog No :</b>	YT5157
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	ALDH1A1
<b>Fields :</b>	>>Retinol metabolism;>>Metabolic pathways
<b>Gene Name :</b>	ALDH1A1
<b>Protein Name :</b>	Retinal dehydrogenase 1
<b>Human Gene Id :</b>	216
<b>Human Swiss Prot No :</b>	P00352
<b>Mouse Swiss Prot No :</b>	P24549
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from the N-terminal region of human ALDH1A1. AA range:21-70
<b>Specificity :</b>	ALDH1A1 Polyclonal Antibody detects endogenous levels of ALDH1A1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC: 1:100-300 ELISA: 1:20000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 55kD

**Cell Pathway :** Retinol metabolism;

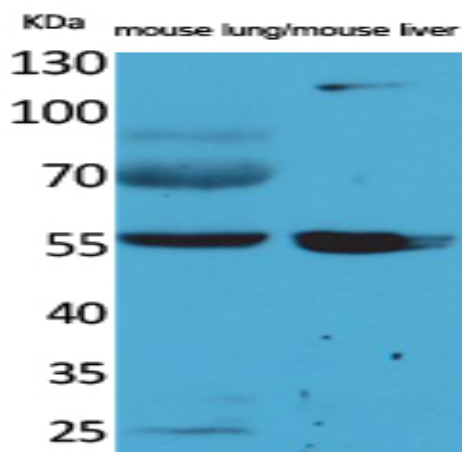
**Background :** The protein encoded by this gene belongs to the aldehyde dehydrogenase family. Aldehyde dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. There are two major aldehyde dehydrogenase isozymes in the liver, cytosolic and mitochondrial, 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],

**Function :** catalytic activity:Retinal + NAD(+) + H(2)O = 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.,

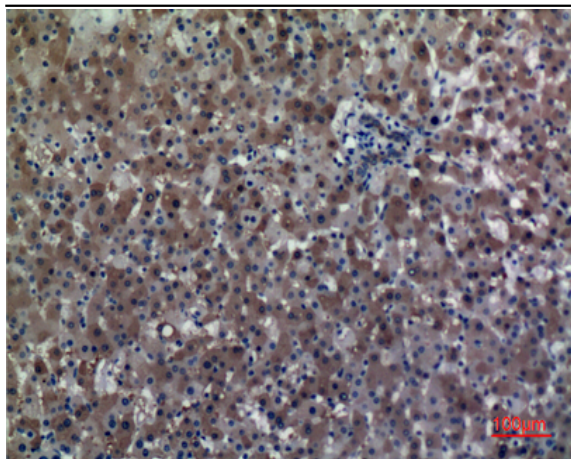
**Subcellular Location :** Cytoplasm, cytosol . Cell projection, axon .

**Expression :** Expressed by erythrocytes (at protein level).

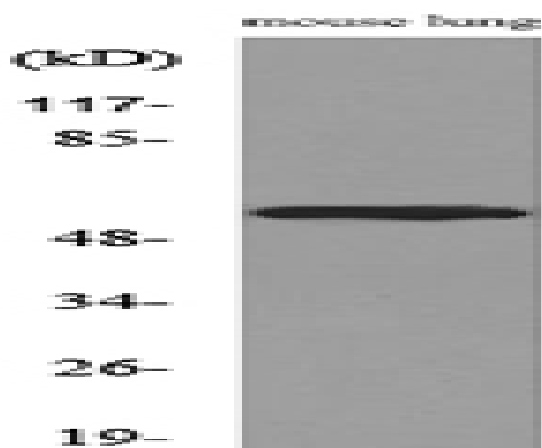
## Products Images



Western Blot analysis of mouse lung, mouse liver cells using ALDH1A1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



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



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