

# IHC*easy* ALDH1A1 Ready-To-Use IHC Kit

Catalog Number: **KHC0084**

## General Information

Sample type:  
FFPE tissue  
Cited sample type:  
Reactivity:  
Human, Rat  
Cited Reactivity:

Assay type:  
Immunohistochemistry  
Primary antibody type:  
Mouse Monoclonal  
Secondary antibody type:  
Polymer-HRP-Goat anti-Mouse

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

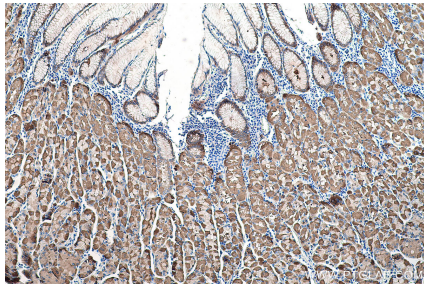
## Background

ALDH1A1(Aldehyde dehydrogenase family 1 member A1 ), also named as ALDC, ALDH1 and PUMB1, belongs to the aldehyde dehydrogenase family. The ALDH1A1 gene encodes a liver cytosolic isoform of acetaldehyde dehydrogenase, an enzyme involved in the major pathway of alcohol metabolism after alcohol dehydrogenase. ALDH1A1 plays a critical role in protection against oxidative stress-induced cytotoxicity in lens epithelial cells. And it is important for multiple biological activities including drug resistance, cell differentiation, and oxidative stress response. As a novel cancer stem cell marker, ALDH1A1 can be used for tumors whose corresponding normal tissues express ALDH1A1 in relatively restricted or limited levels such as breast, lung, ovarian or colon cancer.

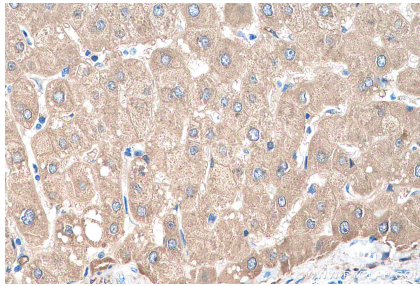
## Synonyms

ALDC, ALDH E1, ALDH1, ALDH11, ALDH1A1, ALHDII, PUMB1, RALDH 1, RALDH1, Retinal dehydrogenase 1

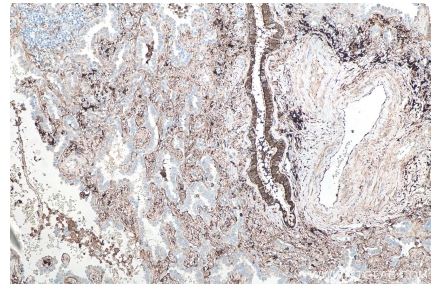
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using KHC0084 (ALDH1A1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using KHC0084 (ALDH1A1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using KHC0084 (ALDH1A1 IHC Kit).