

Product Name: KD-Validated ALDH1B1 Mouse Monoclonal Antibody**Catalog #: KVA01849**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:400-1:2,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; Immunohistochemistry-Paraffin(IHC-P): 1:100-1:200
Molecular Weight	Calculated MW: 57.2kDa

Antigen Information

Gene Name	ALDH1B1 ALDH1B1; Aldehyde Dehydrogenase 1 Family Member B1; ALDHX; ALDH5; Aldehyde Dehydrogenase X, Mitochondrial; Aldehyde Dehydrogenase 5; EC 1.2.1.3; Aldehyde Dehydrogenase 1 Family, Member B1; Epididymis Secretory Sperm Binding Protein; Aldehyde Dehydrogenase Family 1 Member B1; Acetaldehyde Dehydrogenase 5; ALDH Class 2; EC 1.2.1
Alternative Names	
Gene ID	219.0
SwissProt ID	P30837
Immunogen	Recombinant protein of human ALDH1B1

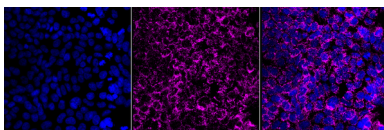
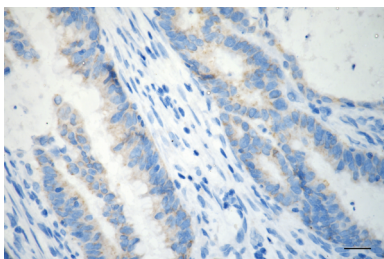
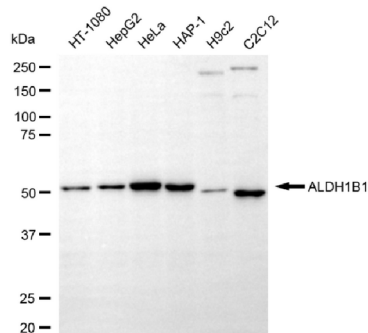
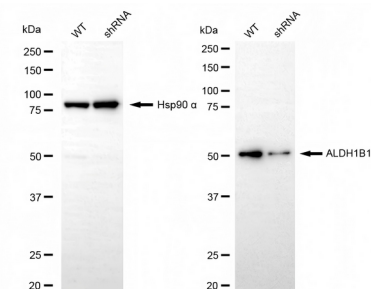
Background

This protein belongs to the aldehyde dehydrogenases family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. This gene does not contain introns in the coding sequence. The variation of this locus may affect the development of alcohol-related problems. [provided by RefSeq, Jul 2008]

Research Area

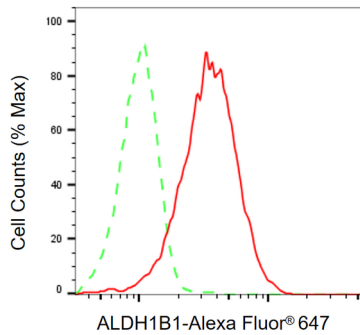
Signal Transduction, Metabolism

Image Data



Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using ALDH1B1 antibody (KVA01849, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.

Immunocytochemical staining of HAP1 cells with ALDH1B1 antibody (KVA01849, 1:1,000). Nuclei were stained blue with DAPI; ALDH1B1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of ALDH1B1 expression in HAP-1 cells using ALDH1B1 antibody (KVA01849,1:2,000). Green, isotype control; red, ALDH1B1.