

ALDH1L1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7848B

Product Information

Application	WB, IHC-P, E
Primary Accession	O75891
Reactivity	Human, Mouse
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	98829
Antigen Region	717-746

Additional Information

Gene ID	10840
Other Names	Cytosolic 10-formyltetrahydrofolate dehydrogenase, 10-FTHFDH, FDH, Aldehyde dehydrogenase family 1 member L1, ALDH1L1, FTHFD
Target/Specificity	This ALDH1L1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 717-746 amino acids from the C-terminal region of human ALDH1L1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ALDH1L1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ALDH1L1 (HGNC:3978)
Synonyms	FTHFD
Function	Cytosolic 10-formyltetrahydrofolate dehydrogenase that catalyzes the NADP(+)-dependent conversion of 10-formyltetrahydrofolate to

tetrahydrofolate and carbon dioxide (PubMed:[19933275](#), PubMed:[21238436](#)). May also have an NADP(+)-dependent aldehyde dehydrogenase activity towards formaldehyde, acetaldehyde, propionaldehyde, and benzaldehyde (By similarity).

Cellular Location Cytoplasm, cytosol.

Tissue Location Highly expressed in liver, pancreas and kidney.

Background

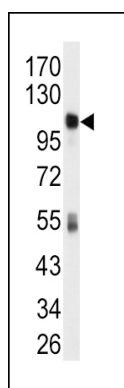
ALDH1L1 catalyzes the conversion of 10-formyltetrahydrofolate, NADP, and water to tetrahydrofolate, NADPH, and carbon dioxide. The encoded protein belongs to the aldehyde dehydrogenase family and is responsible for formate oxidation in vivo. Deficiencies in this gene can result in an accumulation of formate and subsequent methanol poisoning.

References

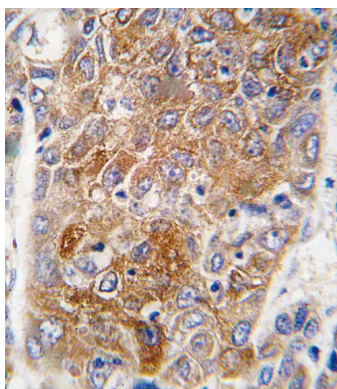
Hosgood,H.D. III,Carcinogenesis 29 (10), 1938-1943 (2008)

Lee,K.M., Hum. Genet. 122 (5), 525-533 (2007)

Images



Western blot analysis of anti-ALDH1L1 Antibody (C-term) (Cat.#AP7848b) in mouse liver tissue lysates (35ug/lane). ALDH1L1(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with ALDH1L1 antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.