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ALDH1B1 Polyclonal Antibody

Catalog # AP68372

Product Information

Application	WB, E
Primary Accession	P30837
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57249

Additional Information

Gene ID	219
Other Names	ALDH1B1; ALDH5; ALDHX; Aldehyde dehydrogenase X; mitochondrial; Aldehyde dehydrogenase 5; Aldehyde dehydrogenase family 1 member B1
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

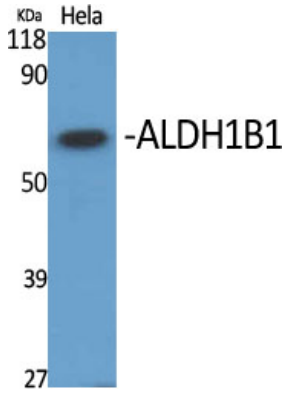
Protein Information

Name	ALDH1B1 (HGNC:407)
Function	Broad specificity, mitochondrial aldehyde dehydrogenase that could play a role in the detoxification of alcohol-derived acetaldehyde and other aldehydes (PubMed:20616185, PubMed:25413692, PubMed:35788181). Shows an absolute preference for NAD(+) as no activity is detected with NADP(+) (PubMed:20616185, PubMed:25413692). Has a high affinity and catalytic efficiency toward aliphatic medium- chain saturated aldehydes relative to short-chain and aromatic aldehydes in vitro (PubMed:20616185). Also capable of metabolizing products of lipid peroxidation, namely 4-hydroxynon-2-enal(4-HNE) and malonaldehyde (MDA) but with lower catalytic efficiency (PubMed:20616185). In vitro, it can also display a nitroglycerin reductase activity (PubMed:25413692). Has also an esterase activity in vitro, but this may be not physiologically relevant in vivo (PubMed:20616185).
Cellular Location	Mitochondrion matrix
Tissue Location	Liver, testis and to a lesser extent in brain.

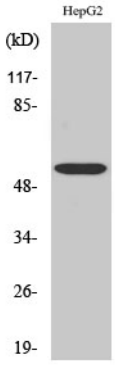
Background

ALDHs play a major role in the detoxification of alcohol-derived acetaldehyde. They are involved in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation.

Images



Western Blot analysis of various cells using ALDH1B1 Polyclonal Antibody diluted at 1：1000



Western Blot analysis of COS7 cells using ALDH1B1 Polyclonal Antibody diluted at 1：1000

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