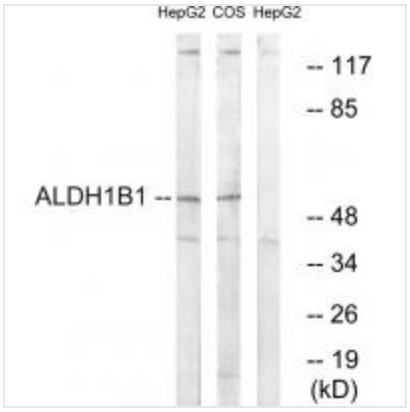
ALDH1B1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ALDH1B1, Polyclonal Antibody
Full Product Name	ALDH1B1 Antibody
Product Gene Name	anti-ALDH1B1 antibody
Product Synonym Names	acetaldehyde dehydrogenase 5; AL1B1; aldehyde dehydrogenase X; mitochondrial; ALDH class 2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total ALDH1B1 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	57,206 Da
OMIM	100670
3D Structure	ModBase 3D Structure for P30837
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human ALDH1B1.
Target Name	ALDH1B1
Product Categories/Family for anti-ALDH1B1 antibody	Total protein Ab
Applications Tested/Suitable for anti-ALDH1B1 antibody	Western Blot (WB)
Application Notes for anti-ALDH1B1 antibody	Western blotting: 1:500~1:3000
Related Product Information for anti-ALDH1B1 antibody	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.Hsu L.C., J. Biol. Chem. 266:12257-12265(1991).Kalnine N., Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.Humphray S.J., Nature 429:369-374(2004).
Other Notes	Small volumes of anti-ALDH1B1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ALDH1B1 purchase	MBS9403451 is an antibody targeting ALDH1B1. Also known as ALDH1B1 Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ALDH1B1 antibody
Western blot analysis of extracts from HepG2 cells and COS cells, using ALDH1B1 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALDH1B1. It may not necessarily be applicable to this product.

NCBI GI #	25777730
NCBI GeneID	219
NCBI Accession #	NP_000683.3
UniProt Primary Accession #	P30837
UniProt Secondary Accession #	Q8WX76; Q9BV45; B2R8F0
UniProt Related Accession #	P30837
GenBank Nucleotide #	NM_000692.4
NCBI Official Full Name	aldehyde dehydrogenase X, mitochondrial
NCBI Official Synonym Full Names	aldehyde dehydrogenase 1 family, member B1
NCBI Official Symbol	ALDH1B1
NCBI Official Synonym Symbols	ALDH5; ALDHX
UniProt Protein Name	Aldehyde dehydrogenase X, mitochondrial
UniProt Synonym Protein Names	Aldehyde dehydrogenase 5; Aldehyde dehydrogenase family 1 member B1
Protein Family	Aldehyde dehydrogenase
UniProt Gene Name	ALDH1B1
UniProt Synonym Gene Names	ALDH5; ALDHX
UniProt Entry Name	AL1B1_HUMAN
NCBI Protein Information	aldehyde dehydrogenase X, mitochondrial
NCBI Summary for ALDH1B1	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]

UniProt Comments for ALDH1B1	ALDH1B1: 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. Belongs to the aldehyde dehydrogenase family. Protein type: Oxidoreductase; Carbohydrate Metabolism - ascorbate and aldarate; Other Amino Acids Metabolism - beta-alanine; Carbohydrate Metabolism - pyruvate; Carbohydrate Metabolism - propanoate; Carbohydrate Metabolism - butanoate; Lipid Metabolism - glycerolipid; Mitochondrial; Lipid Metabolism - fatty acid; Amino Acid Metabolism - lysine degradation; Carbohydrate Metabolism - glycolysis and gluconeogenesis; EC 1.2.1.3; Secondary Metabolites Metabolism - limonene and pinene degradation; Amino Acid Metabolism - histidine; Amino Acid Metabolism - arginine and proline; Amino Acid Metabolism - tryptophan; Amino Acid Metabolism - valine, leucine and isoleucine degradation Chromosomal Location of Human Ortholog: 9p11.1 Cellular Component: nucleoplasm; mitochondrion; intracellular membrane-bound organelle; mitochondrial matrix Molecular Function: aldehyde dehydrogenase (NAD) activity Biological Process: ethanol catabolic process; carbohydrate metabolic process
Research Articles on ALDH1B1	**1.** ALDH1 is indicative of stemness and is a biomarker marker in colon cancer.
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