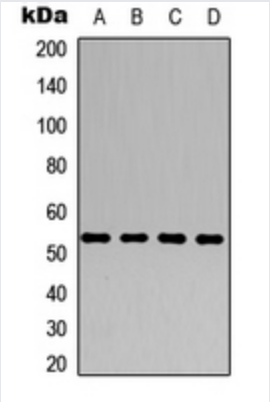
ALDH1A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ALDH1A1, Polyclonal Antibody
Full Product Name	Anti-ALDH1A1 Antibody
Product Gene Name	anti-ALDH1A1 antibody
Product Synonym Names	ALDC; ALDH1; PUMB1; Retinal dehydrogenase 1; RALDH 1; RalDH1; ALDH-E1; ALHDII; Aldehyde dehydrogenase family 1 member A1; Aldehyde dehydrogenase, cytosolic
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of ALDH1A1 protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Antibody/Peptide Pairs	ALDH1A1 peptide (MBS8229580) is used for blocking the activity of ALDH1A1 antibody (MBS8217311)
Molecular Weight	54,862 Da
OMIM	100640
3D Structure	ModBase 3D Structure for P00352
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human ALDH1A1. The exact sequence is proprietary.
Applications Tested/Suitable for anti-ALDH1A1 antibody	Western Blot (WB)
Application Notes for anti-ALDH1A1 antibody	WB (1/500 - 1/1000)
Related Product Information for anti-ALDH1A1 antibody	MBS8217311 is an antibody targeting ALDH1A1. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to ALDH1A1
Other Notes	Small volumes of anti-ALDH1A1 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.



Western Blot (WB) of anti-ALDH1A1 antibody
Western blot analysis of ALDH1A1 expression in HEK293T (A), Raw264.7 (B), NIH3T3 (C), PC12 (D) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALDH1A1. It may not necessarily be applicable to this product.

NCBI GI #	21361176
NCBI GeneID	216
NCBI Accession #	NP_000680.2
UniProt Primary Accession #	P00352
UniProt Secondary Accession #	O00768; Q5SYR1
UniProt Related Accession #	P00352
GenBank Nucleotide #	NM_000689.4
NCBI Official Full Name	retinal dehydrogenase 1
NCBI Official Synonym Full Names	aldehyde dehydrogenase 1 family, member A1
NCBI Official Symbol	ALDH1A1
NCBI Official Synonym Symbols	ALDC; ALDH1; HEL-9; HEL12; PUMB1; ALDH11; RALDH1; ALDH-E1; HEL-S-53e
UniProt Protein Name	Retinal dehydrogenase 1
UniProt Synonym Protein Names	ALDH-E1; ALHDII; Aldehyde dehydrogenase family 1 member A1; Aldehyde dehydrogenase, cytosolic
Protein Family	Retinal dehydrogenase
UniProt Gene Name	ALDH1A1
UniProt Synonym Gene Names	ALDC; ALDH1; PUMB1; RALDH 1; RalDH1
UniProt Entry Name	AL1A1_HUMAN
NCBI Protein Information	retinal dehydrogenase 1
NCBI Summary for ALDH1A1	The protein encoded by this gene belongs to the aldehyde dehydrogenase family. Aldehyde dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. There are two major aldehyde dehydrogenase isozymes in the liver, cytosolic and mitochondrial, which are encoded by distinct genes, and can be distinguished by their electrophoretic mobility, kinetic properties, and subcellular localization. This gene encodes the cytosolic isozyme. Studies in mice show that through its role in retinol metabolism, this gene may also be involved in the regulation of the metabolic responses to high-fat diet. [provided by RefSeq, Mar 2011]

UniProt Comments for ALDH1A1	ALDH1A1: Binds free retinal and cellular retinol-binding protein- bound retinal. Can convert/oxidize retinaldehyde to retinoic acid. Belongs to the aldehyde dehydrogenase family. Protein type: GAPs, Ras; Oxidoreductase; GAPs; Cofactor and Vitamin Metabolism - retinol; Apoptosis; EC 1.2.1.36 Chromosomal Location of Human Ortholog: 9q21.13 Cellular Component: cytoplasm; cytosol Molecular Function: aldehyde dehydrogenase (NAD) activity; androgen binding; 3-chloroallyl aldehyde dehydrogenase activity; benzaldehyde dehydrogenase (NAD+) activity; retinal dehydrogenase activity Biological Process: retinol metabolic process; xenobiotic metabolic process; aldehyde metabolic process; ethanol oxidation
Research Articles on ALDH1A1	**1.** study found that ALDH1, CD44, OCT4 and SOX2 are overexpressed in tongue squamous cell carcinoma
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