



# Human ALDH1A1 blocking peptide (CDBP0369)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Blocking/Immunizing peptide for anti-ALDH1A1 (Internal) antibody
<b>Antigen Description</b>	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.
<b>Species</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Apuri, BL, ELISA
<b>Format</b>	Lyophilized powder
<b>Size</b>	100 µg
<b>Preservative</b>	None
<b>Storage</b>	Shipped at ambient temperature, store at -20°C.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ALDH1A1 aldehyde dehydrogenase 1 family, member A1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	ALDH1A1
<b>Synonyms</b>	ALDH1A1; aldehyde dehydrogenase 1 family, member A1; ALDH1, PUMB1; retinal

dehydrogenase 1; RALDH1; retinaldehyde dehydrogenase 1; ALHDII; RALDH 1; ALDH class 1; acetaldehyde dehydrogenase 1; aldehyde dehydrogenase 1, soluble; aldehyde dehydrogenase, liver cytosolic; ALDC; ALDH1; PUMB1; ALDH11; ALDH-E1; MGC2318;

Entrez Gene ID	<a href="#">216</a>
mRNA Refseq	<a href="#">NM_000689</a>
Protein Refseq	<a href="#">NP_000680</a>
UniProt ID	P00352
Chromosome Location	9q21.13
Pathway	Biological oxidations, organism-specific biosystem; Ethanol oxidation, organism-specific biosystem; Fatty Acid Omega Oxidation, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Phase 1 - Functionalization of compounds, organism-specific biosystem; Retinol metabolism, organism-specific biosystem;
Function	Ras GTPase activator activity; aldehyde dehydrogenase (NAD) activity; androgen binding; oxidoreductase activity; retinal dehydrogenase activity;