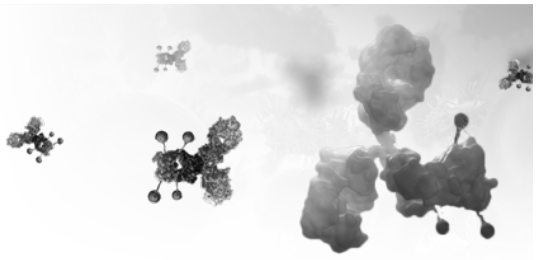

Anti-ALDH2 polyclonal antibody (DPABY-709)

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

PRODUCT INFORMATION

Antigen Description	This protein belongs to the aldehyde dehydrogenase family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of this enzyme, cytosolic and mitochondrial, can be distinguished by their electrophoretic mobilities, kinetic properties, and subcellular localizations. Most Caucasians have two major isozymes, while approximately 50% of Orientals have only the cytosolic isozyme, missing the mitochondrial isozyme. A remarkably higher frequency of acute alcohol intoxication among Orientals than among Caucasians could be related to the absence of the mitochondrial isozyme. This gene encodes a mitochondrial isoform, which has a low Km for acetaldehydes, and is localized in mitochondrial matrix. [provided by RefSeq]
Immunogen	Recombinant fragment corresponding to a region within amino acids 151 and 517 of ALDH2 (Uniprot ID#P05091)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Purified by antigen-affinity chromatography.
Conjugate	Unconjugated
Applications	ELISA Pr*, ICC/IF, IHC-P, WB
Molecular Weight	56 kDa
Cellular Localization	Mitochondrion matrix
Positive Control	H1299, GL261, C8D30, BCL-1, Raw264.7
Format	Liquid

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Concentration	0.23 mg/ml
Size	25 µl
Buffer	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Preservative	None
Storage	Keep as concentrated solution. Aliquot and store at -20℃ or below. Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name	ALDH2 aldehyde dehydrogenase 2 family (mitochondrial) [Homo sapiens (human)]
Official Symbol	ALDH2
Synonyms	ALDH2; aldehyde dehydrogenase 2 family (mitochondrial); ALDM; ALDHI; ALDH-E2; aldehyde dehydrogenase, mitochondrial; ALDH class 2; liver mitochondrial ALDH; acetaldehyde dehydrogenase 2; nucleus-encoded mitochondrial aldehyde dehydrogenase 2;
Entrez Gene ID	217
Protein Refseq	NP_000681
UniProt ID	P05091
Chromosome Location	12q24.2
Pathway	Arginine and proline metabolism; Ascorbate and aldarate metabolism; Biological oxidations; Ethanol oxidation; Fatty Acid Omega Oxidation; Fatty acid degradation; GABA biosynthesis, eukaryotes, putrescine => GABA; Glycerolipid metabolism;
Function	aldehyde dehydrogenase (NAD) activity; aldehyde dehydrogenase [NAD(P)+] activity; electron carrier activity;

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