

产品名称: ALDH2 Rabbit Polyclonal Antibody
产品货号: APRab06763



产品概述 (Summary)

产品名称 (Production Name)	ALDH2 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ALDH2
别名 (Alternative Names)	ALDH2; ALDM; Aldehyde dehydrogenase, mitochondrial; ALDH class 2; ALDH-E2; ALDHI
基因 ID (Gene ID)	217.0
蛋白 ID (SwissProt ID)	P05091.The antiserum was produced against synthesized peptide derived from the N-terminal region of human ALDH2. AA range:41-90

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	56kDa

产品名称: ALDH2 Rabbit Polyclonal Antibody
产品货号: APRab06763



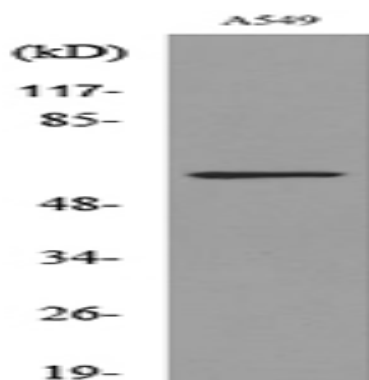
研究背景 (Background)

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 aldehyde dehydrogenase, 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 the cytosolic isozyme but not the mitochondrial isozyme. A remarkably higher frequency of acute alcohol intoxication among Orientals than among Caucasians could be related to the absence of a catalytically active form of the mitochondrial isozyme. The increased exposure to acetaldehyde in individuals with the catalytically inactive form may also confer greater susceptibility to many types of cancer. This gene encodes a mitochondrial isoform, catalytic activity: An aldehyde + NAD(+) + H₂O = an acid + NADH, disease: Defects in ALDH2 are a cause of acute alcohol sensitivity [MIM:610251]. There are wide individual differences in responses to drinking alcohol. Recent estimates claim that subjective effects (how people feel when they drink) vary from 200%-300% in the adult population, and ethanol metabolism (how quickly alcohol is absorbed into the bloodstream and metabolized by the liver) varies by approximately 200%. Unfortunately, alcohol researchers know very little about why such drastic differences occur between individuals and how individual differences in alcohol sensitivity might link drinking behavior with problematic alcohol-related outcomes., pathway: Alcohol metabolism; ethanol degradation; acetate from ethanol: step 2/2., polymorphism: Allele ALDH2*2 is associated with a very high incidence of acute alcohol intoxication in Orientals and South American Indians, as compared to Caucasians., similarity: Belongs to the aldehyde dehydrogenase family., subunit: Homotetramer.,

研究领域 (Research Area)

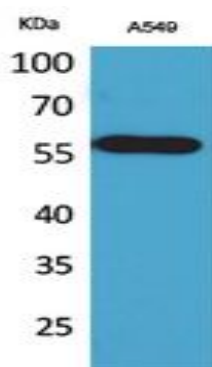
Glycolysis / Gluconeogenesis; Ascorbate and aldarate metabolism; Fatty acid metabolism; Valine; leucine and isoleucine degradation; Lysine degradation; Arginine and proline metabolism; Histidine metabolism; Tryptophan metabolism; beta-Alanine metabolism; Glycerolipid metabolism; Pyruvate metabolism; Propanoate metabolism; Butanoate metabolism; Limonene and pinene degradation;

图片 (Image Data)

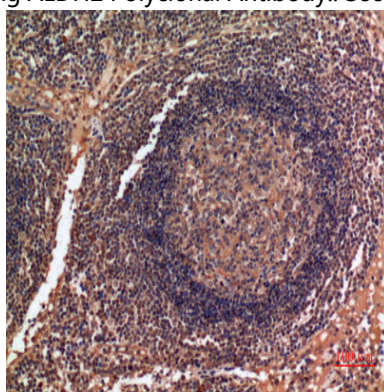


Western blot analysis of lysate from A549 cells, using ALDH2 Antibody.

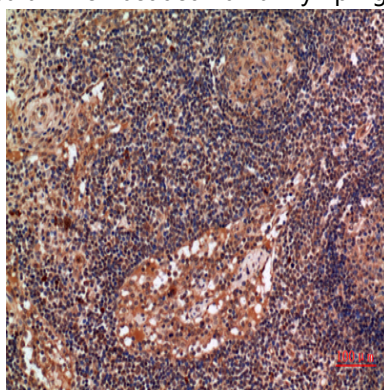
产品名称: ALDH2 Rabbit Polyclonal Antibody
产品货号: APRab06763



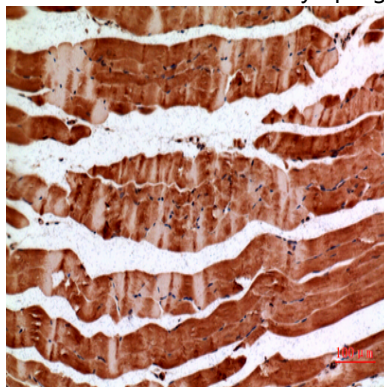
Western Blot analysis of A549 cells using ALDH2 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-lymph-gland, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-lymph-gland, antibody was diluted at 1:100



产品名称: ALDH2 Rabbit Polyclonal Antibody
产品货号: APRab06763



Immunohistochemical analysis of paraffin-embedded mouse-muscle, antibody was diluted at 1:100

注意事项 (Note)

For research use only .