

ARG59366 anti-ALDH2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ALDH2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ALDH2
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 52-81 of Human ALDH2.
Conjugation	Un-conjugated
Alternate Names	EC 1.2.1.3; ALDH class 2; ALDM; ALDHI; Aldehyde dehydrogenase, mitochondrial; ALDH-E2

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	A549	

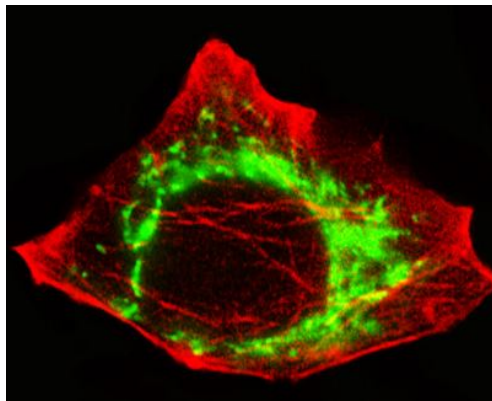
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

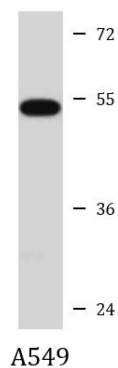
Gene Symbol	ALDH2
Gene Full Name	aldehyde dehydrogenase 2 family (mitochondrial)
Background	This protein belongs to the aldehyde dehydrogenase family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of aldehyde dehydrogenase, 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, which has a low Km for acetaldehydes, and is localized in mitochondrial matrix. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Mar 2011]
Calculated Mw	56 kDa
Cellular Localization	Mitochondrion matrix. [UniProt]

Images



ARG59366 anti-ALDH2 antibody ICC/IF image

Immunofluorescence: A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then stained with ARG59366 anti-ALDH2 antibody (green) at 1:25, 1 hour at 37°C. Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated Phalloidin (red) (7 units/ml, 1 hour at 37°C).



ARG59366 anti-ALDH2 antibody WB image

Western blot: 35 µg of A549 cell lysate stained with ARG59366 anti-ALDH2 antibody.