

产品名称: ALDH2 Mouse Monoclonal Antibody
产品货号: AMM83059



产品概述 (Summary)

产品名称 (Production Name)	ALDH2 Mouse Monoclonal Antibody
描述 (Description)	Mouse monoclonal Antibody
宿主 (Host)	Mouse
应用 (Application)	WB,IHC,ICC,ELISA,FC
种属反应性 (Reactivity)	Human,Mouse,Rat,Monkey,Rabbit

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	Mouse IgG1
克隆 (Clonality)	Monoclonal
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)	Purified antibody in PBS with 0.05% sodium azide
纯化方式 (Purification)	Affinity Purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ALDH2
别名 (Alternative Names)	ALDM; ALDH1; ALDH-E2
基因 ID (Gene ID)	217.0
蛋白 ID (SwissProt ID)	P05091.Purified recombinant fragment of human ALDH2 (AA: 317-517) expressed in E. Coli.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:500,ICC 1:50-1:500,ELISA 1:5000-1:20000,FC 1:200-1:400
蛋白分子量 (Molecular Weight)	56.3kDa

研究背景 (Background)

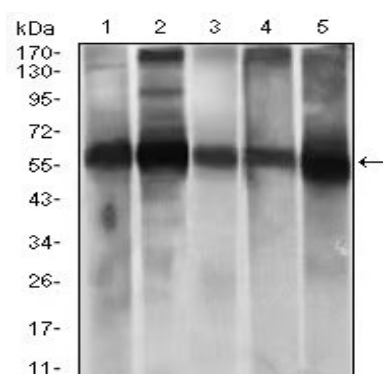
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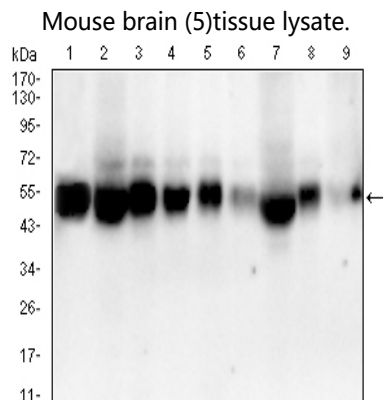
This protein belongs to the aldehyde dehydrogenase family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of aldehyde dehydrogenase, cytosolic and mitochondrial, can be distinguished by their electrophoretic mobilities, 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 K_m for acetaldehydes, and is localized in mitochondrial matrix. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

研究领域 (Research Area)

图片 (Image Data)

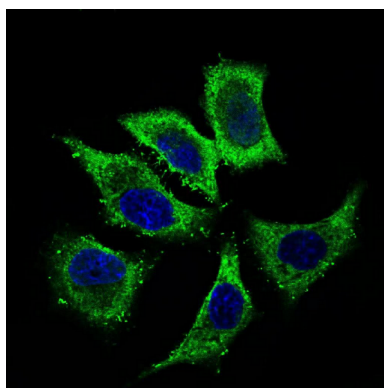


Western blot analysis using ALDH2 mouse mAb against HepG2(1), A549 (2) cell lysate and Rat liver(3), Mouse liver (4), Mouse brain (5) tissue lysate.

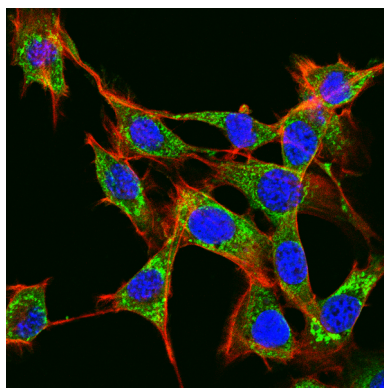


Western blot analysis using ALDH2 mouse mAb against mouse liver(1)Raw264.7(2)NIH/3T3(3)NRK(4)C2C12(5)C6(6)F9(7)COS-7(8)CHO3D10(9) cell lysate.

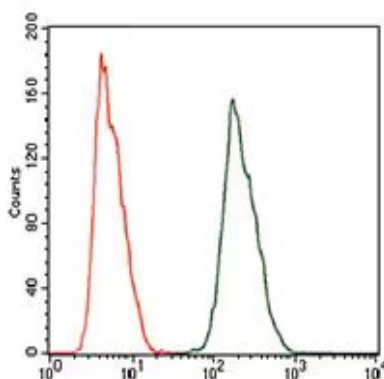
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Immunofluorescence analysis of HepG2 cells using ALDH2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

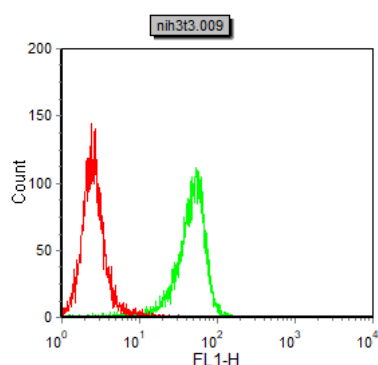


Immunofluorescence analysis of NIH/3T3 cells using ALDH2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

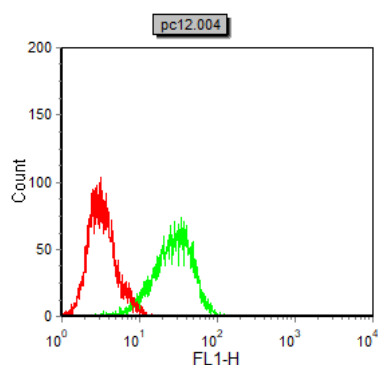


Flow cytometric analysis of HeLa cells using ALDH2 mouse mAb (green) and negative control (purple).

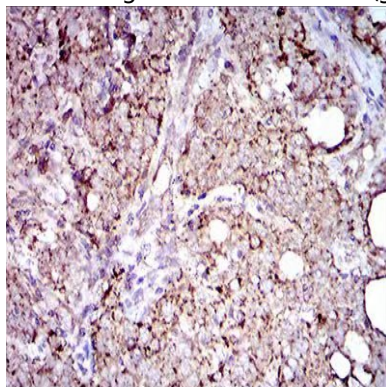
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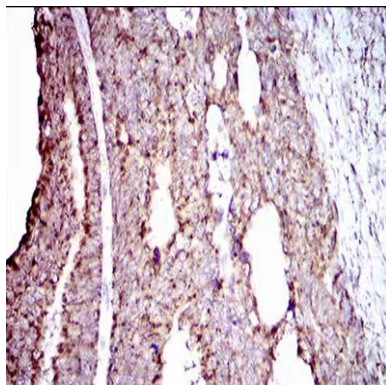
Flow cytometric analysis of NIH/3T3 cells using ALDH2 mouse mAb (green) and negative control (red).



Flow cytometric analysis of PC-12 cells using ALDH2 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using ALDH2 mouse mAb with DAB staining.



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Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using ALDH2 mouse mAb with DAB staining.

注意事项 (Note)

For research use only .