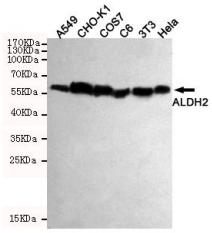
ALDH2

Mouse monoclonal Antibody

#53323

Catalog Number: 53323
Amount: 100μg/100μl
Swiss-Prot No. :P05091
Gene name:aldh2
Gene id:217
Clone Number： 8D4-D6-D11
Form of Antibody: Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
Storage/Stability: Store at -20℃/1 year
Immunogen: Purified recombinant human ALDH2 protein fragments expressed in E.coli
Purification: affinity-chromatography
Specificity/Sensitivity: This antibody detects endogenous levels of ALDH2 and does not corss-react with related proteins
Reactivity: Human,Mouse,Rat,Monkey,Hamster
Applications: Predicted MW: 56 kd WB: 1:1000



Western blot detection of ALDH2 in Hela,3T3,C6,COS7,CHO-K1 and A549 cell lysates using ALDH2 mouse mAb(1:1000 diluted).Predicted band size:56KDa.Observed band size:56KDa.

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.