9F, No. 108, Jhouzih St., Taipei, Taiwan
Tel: + 886-2-8751-1888 Fax: + 886-2-6602-1218
E-mail: sales@abnova.com

Datasheet

ALDH2 monoclonal antibody (M01), clone 1E5

Catalog Number: H00000217-M01

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant ALDH2.

Clone Name: 1E5

Immunogen: ALDH2 (AAH02967, 408 a.a. ~ 517 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:
DGMTIAKEEIFGPVMQILKFKTIEEVVGRANNSTYGLAA
AVFTKDLDKANYLSQALQAGTVWVNCYDVFGAQSPF
GGYKMSGSGRELGEYGLQAYTEVKTVTVKVPQKNS

Host: Mouse

Reactivity: Human

Applications: ELISA, S-ELISA, WB-Ce, WB-Re, WB-Tr (See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Isotype: IgG2a Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 217

Gene Symbol: ALDH2

Gene Alias: ALDH-E2, ALDHI, ALDM, MGC1806

Gene Summary: 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]

References:

1. Network Clustering Revealed the Systemic Alterations of Mitochondrial Protein Expression. Jeon J, Jeong JH, Baek JH, Koo HJ, Park WH, Yang JS, Yu MH, Kim S, Pak YK. PLoS Comput Biol. 2011 Jun;7(6):e1002093. Epub 2011 Jun 30.