

bsm-51466M**[Primary Antibody]**

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400-901-9800

ALDH2 Mouse mAb**— DATASHEET —**

Host: Mouse	Isotype: IgG1,Igk	Applications: WB (1:500-1000) IHC-P (1:400-800) IHC-F (1:400-800) IF (1:100-500) Flow-Cyt (1:50-100) ICC/IF (1:50-200) Reactivity: Human Predicted MW.: 54 kDa Subcellular Location: Cytoplasm
Clonality: Monoclonal	CloneNo.: A02C1	
GeneID: 217	SWISS: P05091	
Target: ALDH2		
Purification: affinity purified by Protein G		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
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]		

— SELECTED CITATIONS —

- **[IF=4.8]** Jing Li. et al. Rapid antibody conjugation strategy via instant charge inversion of AuNBPs toward ultrasensitive SERS-LFIA detection of AFP. MICROCHEM J. 2024 Jul;202:110832 Other ;. 10.1016/j.microc.2024.110832
- **[IF=1.6]** Shen Xiaorong. et al. ALDH2 as an immunological and prognostic biomarker: Insights from pan-cancer analysis. MEDICINE. 2024 Apr;103(16):e37820 IHC ;Human. 38640328