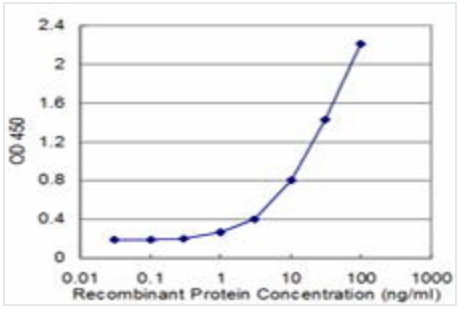
ALDH2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ALDH2, Monoclonal Antibody
Full Product Name	ALDH2 (Aldehyde Dehydrogenase 2 Family (Mitochondrial), ALDH-E2, ALDHI, ALDM, MGC1806) (HRP)
Product Gene Name	anti-ALDH2 antibody
Product Synonym Names	Aldehyde Dehydrogenase 2 Family (Mitochondrial); ALDH-E2; ALDHI; ALDM; MGC1806
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4F10
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified
Specificity	Recognizes ALDH2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Immunogen	ALDH2 (AAH02967, 408aa-517aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Conjugate	HRP
Product Categories/Family for anti-ALDH2 antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-ALDH2 antibody	ELISA (EIA)
Application Notes for anti-ALDH2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ALDH2 antibody	MBS6181663 is an antibody targeting ALDH2. Also known as ALDH2 (Aldehyde Dehydrogenase 2 Family (Mitochondrial), ALDH-E2, ALDHI, ALDM, MGC1806) (HRP). Host: Mouse.
Other Notes	Small volumes of anti-ALDH2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Testing Data of anti-ALDH2 antibody
Detection limit for recombinant GST tagged ALDH2 is approximately 1ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALDH2. It may not necessarily be applicable to this product.

NCBI GI #	12804217
NCBI GeneID	217
NCBI Accession #	AAH02967
UniProt Related Accession #	P05091
NCBI Official Full Name	Aldehyde dehydrogenase 2 family (mitochondrial)
NCBI Official Synonym Full Names	aldehyde dehydrogenase 2 family member
NCBI Official Symbol	ALDH2
NCBI Official Synonym Symbols	ALDM; ALDHI; ALDH-E2
NCBI Protein Information	aldehyde dehydrogenase, mitochondrial
NCBI Summary for ALDH2	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 East Asians have the cytosolic isozyme but not the mitochondrial isozyme. A remarkably higher frequency of acute alcohol intoxication among East Asians 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, Nov 2016]
Research Articles on ALDH2	**1.** A positive dose-response relationship between prediagnosis alcohol use and a worse overall survival (OS) of Head and Neck Cancer (HNC). The polymorphisms of the ethanol-metabolizing genes, ADH1B and ALDH2, modified the relationship between prediagnosis alcohol use and the OS of HNC patients.
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