003216589045 (EU)

# ALDH2 Polyclonal Antibody 

Cat \#: G-AB-08256

| Host: Rabbit | Reactivity: Human, Mouse, Rat |
| :--- | :--- |
| Isotype: $\operatorname{IgG}$ | Clonality: |

## Overview:

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.

Gene ID: 217

## Accession \#:

Immunogen: Recombinant fusion protein of human ALDH2 (NP_000681.2).

Conjugation: Unconjugated

Swissprot: P05091

## Calculated Molecular Weight:

## Observed Molecular Weight:

Concentration: $1 \mathrm{mg} / \mathrm{mL}$

Buffer: PBS with 0.02\% sodium azide, 50\% glycerol, pH7.3

Purification Method: Affinity purification

## Application: IF

Dilution: IF 1:50-1:200

Storage: Store at $-20^{\circ} \mathrm{C}$. Avoid freeze / thaw cycles.

