

**Anti-ALDEHYDE DEHYDROGENASE (RABBIT) Antibody**  
**Aldehyde Dehydrogenase Antibody**  
**Catalog # ASR4580****Specification****Anti-ALDEHYDE DEHYDROGENASE (RABBIT) Antibody - Product Information**

Host	Rabbit
Conjugate	Unconjugated
Target Species	Yeast
Reactivity	Saccharomyces cerevisiae
Clonality	Polyclonal
Application	WB, E, IP, I, LCI
Application Note	Anti-Aldehyde Dehydrogenase has been tested by western blot. Assays should be optimized by the end user for specific conditions for reactivity.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Aldehyde Dehydrogenase [Yeast]
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

**Anti-ALDEHYDE DEHYDROGENASE (RABBIT) Antibody - Additional Information****Gene ID** 855206**Other Names**  
855206**Purity**

Anti-Aldehyde Dehydrogenase is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum as well as purified and partially purified Aldehyde Dehydrogenase [Yeast]. Cross reactivity against Aldehyde Dehydrogenase from other tissues and species may occur but have not been specifically determined.

**Storage Condition**

Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

## **Anti-ALDEHYDE DEHYDROGENASE (RABBIT) Antibody - Protein Information**

**Name** ALD2

**Synonyms** ALD5

### **Function**

Cytoplasmic aldehyde dehydrogenase involved in ethanol oxidation. Required for pantothenic acid production through the conversion of 3-aminopropanal to beta-alanine, an intermediate in pantothenic acid (vitamin B5) and coenzyme A (CoA) biosynthesis.

### **Cellular Location**

Cytoplasm.

## **Anti-ALDEHYDE DEHYDROGENASE (RABBIT) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **Anti-ALDEHYDE DEHYDROGENASE (RABBIT) Antibody - Images**

## **Anti-ALDEHYDE DEHYDROGENASE (RABBIT) Antibody - Background**

The enzyme encoded by this gene belongs to the aldehyde dehydrogenase family of enzymes that catalyze the chemical transformation from acetaldehyde to acetic acid. 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. The ALDH2 gene encodes a mitochondrial isoform, which has a low Km for acetaldehydes, and is localized in mitochondrial matrix; in contrast the ALDH1 gene codes for the cytosolic isoform. Anti-ALDEHYDE DEHYDROGENASE is ideal for researched interested in metabolism research.