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Anti-ALDEHYDE DEHYDROGENASE (Yeast) (RABBIT) Antibody Peroxidase Conjugated

Aldehyde Dehydrogenase Antibody Peroxidase Conjugated
Catalog # ASR4653

Specification

Anti-ALDEHYDE DEHYDROGENASE (Yeast) (RABBIT) Antibody Peroxidase Conjugated - Product Information

Host	**Rabbit**
Conjugate	**Peroxidase (Horseradish)**
Target Species	**Yeast**
Reactivity	**Saccharomyces cerevisiae**
Clonality	**Polyclonal**
Application	**WB, E, IP, I, LCI**
Application Note	**Anti-Aldehyde Dehydrogenase Peroxidase Conjugated Antibody has been tested by ELISA and western blot and is assayed against 1.0 ug of Aldehyde Dehydrogenase [Yeast] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:10,000 to 1:50,000 of the reconstitution concentration is suggested for this product.**
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)**
Stabilizer	**10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free**
Preservative	**0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!**

Anti-ALDEHYDE DEHYDROGENASE (Yeast) (RABBIT) Antibody Peroxidase Conjugated - Additional Information

Gene ID 855206

Other Names
855206

Purity
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-Peroxidase, anti-Rabbit

Serum as well as purified and partially purified Aldehyde Dehydrogenase [Yeast]. Cross reactivity against Aldehyde Dehydrogenase from other sources is unknown.

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 (Yeast) (RABBIT) Antibody Peroxidase Conjugated - 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 (Yeast) (RABBIT) Antibody Peroxidase Conjugated - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ALDEHYDE DEHYDROGENASE (Yeast) (RABBIT) Antibody Peroxidase Conjugated - Images

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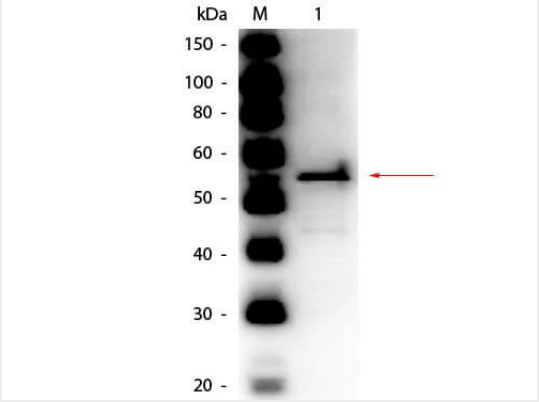

Western Blot of Rabbit anti-Aldehyde Dehydrogenase (yeast) Antibody Peroxidase Conjugated. Lane 1: Aldehyde Dehydrogenase (yeast). Load: 50 ng per lane. Primary antibody: Rabbit anti-Aldehyde Dehydrogenase (yeast) Antibody Peroxidase Conjugated at 1:1,000 overnight at 4°C. Secondary antibody: n/a. Block: MB-070 for 30 min at RT. Predicted/Observed size: 55 kDa, 55 kDa for Aldehyde Dehydrogenase (yeast).

Anti-ALDEHYDE DEHYDROGENASE (Yeast) (RABBIT) Antibody Peroxidase Conjugated - Background

Aldehyde dehydrogenase are a group of enzymes that catalyze the oxidation (dehydrogenation) of aldehydes. Aldehyde dehydrogenase is a polymorphic enzyme responsible for the oxidation of aldehydes to carboxylic acids, which leave the liver and are metabolized by the body’s muscle and heart. ALDH2 also plays a crucial role in maintaining low blood levels of acetaldehyde during alcohol oxidation.