

**Datasheet for 200-4344-0100****Aldehyde Dehydrogenase Antibody Peroxidase Conjugated****Overview**

|                      |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-Aldehyde Dehydrogenase (Yeast) (RABBIT) Antibody Peroxidase Conjugated - 200-4344-0100 |
| <b>Item No.:</b>     | 200-4344-0100                                                                               |
| <b>Size:</b>         | 100 µg                                                                                      |
| <b>Applications:</b> | ELISA, WB                                                                                   |
| <b>Reactivity:</b>   | S. cerevisiae                                                                               |
| <b>Host Species:</b> | Rabbit                                                                                      |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | 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. |
| <b>Synonyms:</b>     | rabbit anti-Aldehyde Dehydrogenase Antibody Peroxidase Conjugation, HRP conjugated anti-Aldehyde Dehydrogenase Antibody, Aldehyde dehydrogenase [NAD(P)+] 1, ALD2, ALD5, ALD                                                                                                                                                                                                                                 |
| <b>Host Species:</b> | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Conjugate:</b>    | Peroxidase (HRP)                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Clonality:</b>    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Format:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                          |

**Target Details**

|                        |                                |
|------------------------|--------------------------------|
| <b>Gene Name:</b>      | ALD2                           |
| <b>Reactivity:</b>     | S. cerevisiae                  |
| <b>Immunogen Type:</b> | Native Protein                 |
| <b>Immunogen:</b>      | Aldehyde Dehydrogenase [Yeast] |

**Purity/Specificity:** 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.

**Relevant Links:**

- [UniProtKB - P47771](#)
- [NCBI - NP\\_013893.1](#)
- [GenelD - 855206](#)

## Application Details

**Tested Applications:** ELISA, WB

**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.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:5,000 - 1:20,000

**IP:** 1:100

**WB:** 1:500 - 1:5,000

## Formulation

**Physical State:** Lyophilized

**Concentration:** 1.0 mg/mL by UV absorbance at 280 nm

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**Preservative:** 0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!

**Stabilizer:** 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

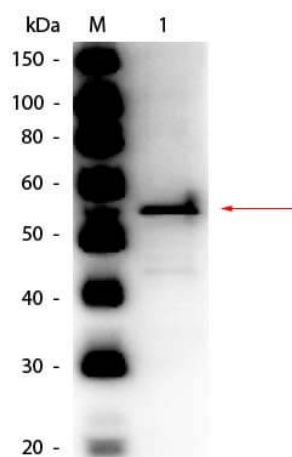
**Reconstitution Volume:** 100 µL

**Reconstitution Buffer:** Restore with deionized water (or equivalent)

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Condition:</b>  | 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. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                           |

## Images



### Western Blot

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).

## Disclaimer

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