

Datasheet for 200-4143

Alcohol Dehydrogenase Antibody

Overview

Description:	Anti-Alcohol Dehydrogenase (Yeast) (RABBIT) Antibody (BULK ORDER) - 200-4143
Item No.:	200-4143
Size:	50 mg
Applications:	WB
Reactivity:	<i>S. cerevisiae</i>
Host Species:	Rabbit

Product Details

Background:	Alcohol Dehydrogenase is an enzyme that specifically metabolizes ethanol and their activity or inactivity determines how quickly ethanol is eliminated from the body. Most densely populated in the liver, Alcohol Dehydrogenase can also be found throughout the bodies other tissues. Levels of alcohol dehydrogenase among different populations and their subsequent allele variants have a large impact on the ability to metabolize alcohol and therefore, alcoholism can be seen as having a genetic predisposition as well as environmental. Anti-Alcohol Dehydrogenase (Yeast) Antibody is ideal for investigators in Developmental Biology, Cancer, and Neuroscience.
Synonyms:	rabbit anti-Alcohol Dehydrogenase Antibody, Alcohol dehydrogenase 1, Alcohol dehydrogenase I, YADH-1, ADH1, ADC1, ADH, ADC
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ADH1
Reactivity:	<i>S. cerevisiae</i>
Immunogen Type:	Native Protein
Immunogen:	Alcohol Dehydrogenase [Yeast]

Purity/Specificity: Anti-Alcohol Dehydrogenase (Yeast) Antibody 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 Alcohol Dehydrogenase [Yeast]. Cross reactivity against Alcohol Dehydrogenase from other sources may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - P00330](#)
- [NCBI - 12643994](#)
- [GeneID - 2538902](#)
- [200-4143 SDS](#)

Application Details

Tested Applications:	WB
Application Note:	Anti-Alcohol Dehydrogenase has been tested by western blot and is suitable for use in ELISA and immunoprecipitation. Specific conditions for reactivity should be optimized by the end user.
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 - 1:2,000

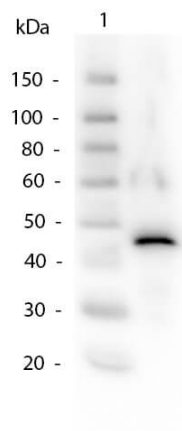
Formulation

Physical State:	Lyophilized
Concentration:	10.0 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) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	5.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Alcohol Dehydrogenase Antibody. Lane 1: MW Marker. Lane 2: load 50ng Alcohol Dehydrogenase. Primary antibody: Alcohol Dehydrogenase Antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase Conjugated Rabbit secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 Blocking Buffer for 30 min at RT. Predicted: 37kDa/Observed size: 45kDa.

References

- Ghaddar A et al. Increased alcohol dehydrogenase 1 activity promotes longevity. *Curr Biol.* (2023)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.