Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 200-4144

Aldehyde Dehydrogenase Antibody

Overview

Description:	Anti-Aldehyde Dehydrogenase (RABBIT) Antibody (BULK ORDER) - 200-4144
Item No.:	200-4144
Size:	50 mg
Applications:	WB
Reactivity:	S. cerevisiae
Host Species:	Rabbit

Product Details

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 researchers interested in metabolism research.
Synonyms:	rabbit anti-Aldehyde Dehydrogenase Antibody, Aldehyde dehydrogenase [NAD(P)+] 1, ALD2, ALD5, ALD
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ALD2
Reactivity:	S. cerevisiae
Immunogen Type:	Native Protein
Immunogen:	Aldehyde Dehydrogenase [Yeast]

Purity/Specificity:	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.
Relevant Links:	• NCBI - P47771.2 • UniProtKB - P47771 • GeneID - 855206

Application Details

Tested Applications:	WB
Application Note:	Anti-Aldehyde Dehydrogenase has been tested by western blot. Assays should be optimized by the end user for specific conditions for reactivity.
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

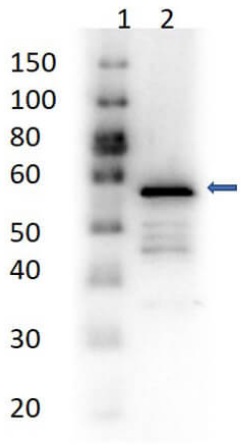
Physical State:	Lyophilized
Concentration:	10.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	5.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

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 Results of Rabbit Anti-Aldehyde Dehydrogenase Antibody. Lane 1: Molecular Weight Marker. Lane 2: Aldehyde Dehydrogenase. Primary Antibody: Anti-Aldehyde Dehydrogenase at 1:1000 overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG (p/n 611 -103-122) at 1:40,000 for 30 mins at RT. Block: BlockOut Buffer (p/n MB-073) for 30 min at RT. Expect MW: ~55kDa.

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.