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Datasheet for 100-4144

Aldehyde Dehydrogenase Antibody

Overview

Description:	Anti-Aldehyde Dehydrogenase (Yeast) (RABBIT) Antibody - 100-4144
Item No.:	100-4144
Size:	2 mL
Applications:	WB
Reactivity:	S. cerevisiae
Host Species:	Rabbit

Product Details

Background:	Cytoplasmic aldehyde dehydrogenase is involved in ethanol oxidation. Aldehyde dehydrogenase is 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.
Synonyms:	rabbit anti-Aldehyde Dehydrogenase Antibody, Aldehyde dehydrogenase, [NAD(P)+] 1, ALD2, ALD5
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

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

Purity/Specificity:	This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, 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:	• UniProtKB - P47771 • NCBI - NP_013893.1 • GeneID - 855206

Application Details

Tested Applications:	WB
Application Note:	Anti-Aldehyde Dehydrogenase has been tested by western blot and is suitable to be assayed against 1.0 ug of Aldehyde Dehydrogenase [Yeast] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302 and (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 1:3,000 to 1:16,000 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

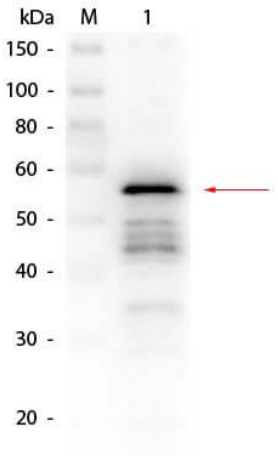
Formulation

Physical State:	Lyophilized
Concentration:	85 mg/mL by Refractometry
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:	2.0 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 Rabbit anti-Aldehyde Dehydrogenase (yeast) Antibody. Lane 1: Aldehyde Dehydrogenase (yeast). Load: 50 ng per lane. Primary antibody: Rabbit anti-Aldehyde Dehydrogenase (yeast) Antibody at 1:500 overnight at 4°C. Secondary antibody: Peroxidase Conjugated Goat anti-Rabbit IgG secondary antibody (p/n 611-103-122) at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 55 kDa, 55 kDa for Aldehyde Dehydrogenase (yeast).

Disclaimer

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