

Product Specification Sheet

Product: Anti-Alcohol Dehydrogenase (Yeast) [Rabbit]

Code: 100-4143

Lot # 2074

Size: 2.0 ml

Physical State: Lyophilized

Antibody Concentration: 90.0 mg/ml (by Refractometry)

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

Stabilizer: None

Preservative: 0.01% (w/v) Sodium Azide

Storage Conditions: Store vial at 4° C prior to restoration. Restore with 2.0 ml of deionized water (or equivalent). 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. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Expiration date is one (1) year from date of restoration.

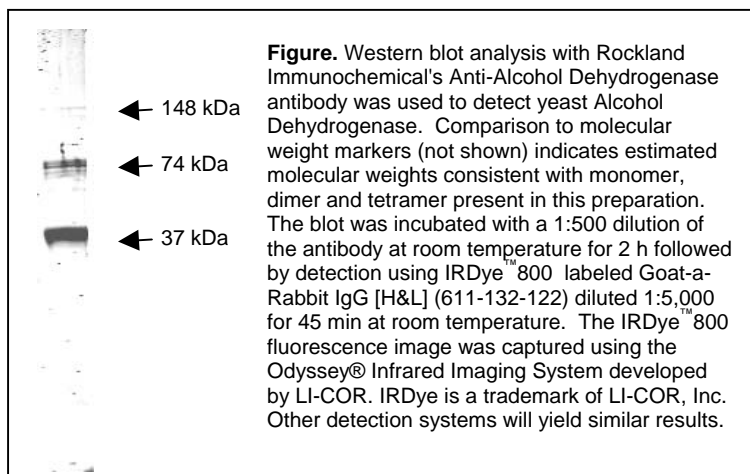
Background: Alcohol dehydrogenase is an isozyme that preferentially catalyzes the conversion of acetaldehyde to acetone. Alcohol dehydrogenase has an apparent molecular weight of 37 kDa (monomer subunit) and forms a homotetramer. This enzyme acts on a variety of primary unbranched aliphatic alcohols and requires 2 bound zinc ions per subunit. Alcohol dehydrogenase shows a cytoplasmic localization. Microheterogeneities may also occur at positions 137, 138, 242-244, and 255 and near position 287.

Application Note(s): This antibody has been tested for use in ELISA and by western blot.

Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 37 kDa in size corresponding to monomeric alcohol dehydrogenase by western blotting in the appropriate cell lysate or extract.

Recommended Dilutions:	ELISA	1:5,000 - 1:25,000
	WESTERN BLOT	1:500 - 1:2,000
	IF MICROSCOPY	User Optimized
	OTHER APPLICATIONS	User Optimized

Purity and Specificity: This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against purified and partially purified Alcohol Dehydrogenase [Yeast]. Cross reactivity against Alcohol Dehydrogenase from most fungal sources is likely due to sequence homology as determined by BLAST analysis. Cross reactivity with Alcohol Dehydrogenase from other sources is unknown.



Relevant Link(s): Swiss Prot: [P00330](#) NCBI Link [P00332](#)

Protein Sequence: Yeast Alcohol Dehydrogenase, 347 aa, predicted MW 36.7 kDa

1	mtipdkqlaa	vfthtgppen	vkfeevpvae	pgqdevlni	kytgvchtdl	halqgdwplp
61	akmpligghe	gagvvvkvga	gvtrlkigdr	vgvkwmnssc	gnceycmkae	eticphiqls
121	gytvdgtfqh	ycianathat	iipesvplev	aapimcagit	cyralkeskv	gpgewicipg
181	aggglghlav	qyakamamrv	vaidtgddka	elvksfgaev	fldfkheadm	ieavkaatng
241	gahgtlvlst	spksyeqaag	farpgstmvt	vmpagaklg	adifwltvkm	lkicgshvgn
301	ridsiealey	vsrglvkpyy	kvqpfstlpd	vyrilmhenki	agrivldlsk	

Immunogen: This antibody was prepared from whole rabbit serum produced by repeated immunizations with full length Alcohol Dehydrogenase isolated from yeast.

General References:

Russell, P.R. and Hall, B.D. (1983) The primary structure of the alcohol dehydrogenase gene from the fission yeast *Schizosaccharomyces pombe*. *J. Biol. Chem.* **258** (1), 143-149 (1983)

Related Products:

#611-703-127	Peroxidase Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (DONKEY) MX10
#611-132-122	IRDye800 Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (GOAT) MX10
#MB-070	Blocking Buffer for Fluorescent Western Blotting
#KIA-003	MaxTag [™] Anti-RABBIT IgG Kit for Immunoblotting
#MB-070	Blocking Buffer for Fluorescent Western Blotting

USDA Certification: 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.

Note: 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.