Anti-ALCOHOL DEHYDROGENASE (Yeast) (RABBIT) Antibody - 100-4143

Code: 100-4143 **Size:** 2 mL

Product Description: Anti-ALCOHOL DEHYDROGENASE (Yeast) (RABBIT) Antibody - 100-4143

Concentration: 90 mg/mL by Refractometry

PhysicalState: Lyophilized

Label	Unconjugated
Host	Rabbit
Gene Name	ADH1, ADC1, YOL086C
Species Reactivity	Saccharomyces cerevisiae (Baker's yeast)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Volume	2.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
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.
Synonyms	rabbit anti-Alcohol Dehydrogenase Antibody, Alcohol dehydrogenase 1, Alcohol dehydrogenase I, YADH-1
Application Note	This antibody has been tested for use in ELISA and by western blot.
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.
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 anti-rabbit serum, 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.
Assay Dilutions	User Optimized
ELISA	1:5,000 - 1:25,000
Western Blot	1:500 - 1:2,000
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	This antibody was prepared from whole rabbit serum produced by repeated immunizations with full length Alcohol Dehydrogenase isolated from yeast.
General Reference	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

100-4158	Anti-GLUTAMATE DEHYDROGENASE (Bovine Liver) (RABBIT) Antibody - 100-4158
610-4302	Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302

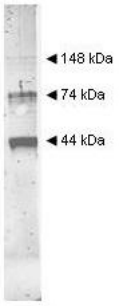
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
B304	NORMAL GOAT SERUM (NGS) - B304

Related Links

	UniProtKB - P00330
http://www.uniprot.org/uniprot/P00330	
NCBI - 12643994	http://www.ncbi.nlm.nih.gov/protein/12643994
	GeneID - 2538902

Images

1	Western blot analysis with Rockland's Anti-Alcohol Dehydrogenase antibody was used to detect yeast Alcohol Dehydrogenase. Comparison to molecular weight markers (not shown) indicates estimated molecular weights consistent with monomer, dimer and tetramer present in this preparation. The blot was incubated with a 1:500 dilution of the antibody at room temperature for 2 h followed by detection using IRDye™800 labeled Goat-a-Rabbit IgG [H&L] (611-132-122) diluted 1:5,000 for 45 min at room temperature. The IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



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