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Product datasheet for R1049

ADH1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	**ELISA:** 1/5,000-1/25,000. **Western Blot:** 1/500-1/2,000, expect a band approximately 37 kDa in size corresponding to monomeric alcohol dehdrogenase in the appropriate cell lysate or extract.
Reactivity:	Yeast
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Full length Alcohol Dehydrogenase isolated from yeast.
Specificity:	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.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, with 0.01% (w/v) Sodium Azide as preservative. State: Serum State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore with 2.0 ml of deionized water (or equivalent).
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	P00330

View online »

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.

Synonyms: Alcohol dehydrogenase I, YADH-1, ADH1, ADC1, YOL086C, O0947

Note: **Protein Sequence:** Yeast Alcohol Dehydrogenase, 347 aa, predicted MW 36.7 kDa
1 mtipdkqlaa vfhthggpen vkfeevpvae pgqdevlvni kytgvchtdl halqgdwplp
61 akmpligghe gagvvvkvga gvtrlkigdr vgvkwmnssc gnceycmkae eticphiqls
121 gytvdgtfqh ycianathat iipesvplev aapimcagit cyralkeskv gpgewicipg
181 aggglghlav qyakamamrv vaidtgddka elvksfgaev fldfkkeadm ieavkaatng
241 gahgtlvlst spksyeqaag farpgstmvt vsmpagaklg adifwltvkm lkicgshvgn
301 ridsiealey vsrglvkpyy kvqpfstlpd vyrlmhenki agrivldlsk

Product images:

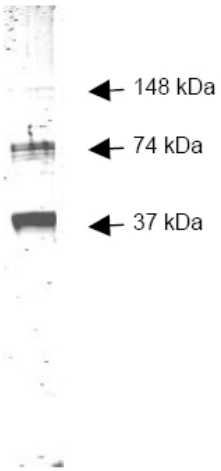

Figure 1. Western blot analysis with Anti-Alcohol Dehydrogenase antibody was used to detect yeast Alcohol Dehydrogenase. Comparison to molecular weight markers (not shown) indicates estimated molecular weights consistent with monomer, dimer and tetramer present in this preparation. The blot was incubated with a 1:500 dilution of the antibody at room temperature for 2 h followed by detection using IRDye (TM)800 labeled Goat-a-Rabbit IgG [H&L] diluted 1:5,000 for 45 min at room temperature. The IRDye (TM)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.