ADH1 Antibody



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Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit	UniProt ID: #P00325	Entrez-Gene Id: 125
Product Usago Information	e	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		ADH1 Antibody detects endogenous levels of total ADH1 protein. The antigen is 100% conserved between human ADH1A, ADH1B and ADH1C proteins.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val74 of human ADH1B protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Human alcohol dehydrogenase (<i>ADH</i>) genes are grouped into five classes, with three distinct class I <i>ADH</i> genes (<i>ADH1A</i> , <i>ADH1B</i> and <i>ADH1C</i>) and <i>ADH4</i> , <i>ADH5</i> , <i>ADH7</i> and <i>ADH6</i> belonging to classes II, III, IV, and V, respectively. ADH is a zinc-containing, dimeric enzyme that catalyzes the conversion of cytosolic alcohol to acetaldehyde in the liver with the coenzyme NAD (1). ADH1A is monomorphic and is the predominant fetal and neonatal liver ADH enzyme. In contrast, polymorphic ADH1B and ADH1C enzymes are predominant in adult livers (2). Polymorphisms in the human class I <i>ADH</i> genes result in functionally variable ADH enzymes; evidence suggests that specific variants may provide protection from the risk of alcoholism (3).				
Background References		1. Edenberg, H.J. (2000) <i>Prog Nucleic Acid Res Mol Biol</i> 64, 295-341. 2. Su, J.S. et al. (2006) <i>J Biol Chem</i> 281, 19809-21. 3. Chen, C.C. et al. (1999) <i>Am J Hum Genet</i> 65, 795-807.				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse				
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