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## **ADH1 Antibody**



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Applications: WB	Reactivity: H M	Sensitivity: Endogenous	<b>MW (kDa):</b> 40	Source: Rabbit	UniProt ID: #P00325	Entrez-Gene Id: 125	
Product Usage Information	Ap	Application			Dilution		
	We	Western Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensitiv		ADH1 Antibody detects endogenous levels of total ADH1 protein. The antigen is 100% conserved between human ADH1A, ADH1B and ADH1C proteins.					
Source / Purification	resi	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	gen and alco prec are vari	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 Referen		<ol> <li>Edenberg, H.J. (2000) Prog Nucleic Acid Res Mol Biol 64, 295-341.</li> <li>Su, J.S. et al. (2006) J Biol Chem 281, 19809-21.</li> </ol>					

**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** 

WB: Western Blotting

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

3. Chen, C.C. et al. (1999) Am J Hum Genet 65, 795-807.

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