

Datasheet for ABIN4886428
anti-ADH4 antibody (AA 218-380)



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1 Image

Overview

Quantity:	100 µg
Target:	ADH4
Binding Specificity:	AA 218-380
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADH4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-ADH4 Antibody Picoband®
Immunogen:	E. coli-derived human ADH4 recombinant protein (Position: K218-F380). Human ADH4 shares 68.7% and 71.8% amino acid (aa) sequence identity with mouse and rat ADH4, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ADH4 Antibody Picoband® (ABIN4886428). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	ADH4
Alternative Name:	ADH4 (ADH4 Products)
Background:	Synonyms: Alcohol dehydrogenase 4,1.1.1.1,Alcohol dehydrogenase class II pi chain,ADH4, Tissue Specificity: Plasma. Expressed primarily in liver. . Background: Alcohol dehydrogenase 4 is an enzyme that in humans is encoded by the ADH4 gene. This gene encodes class II alcohol dehydrogenase 4 pi subunit, which is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. Class II alcohol dehydrogenase is a homodimer composed of 2 pi subunits. It exhibits a high activity for oxidation of long-chain aliphatic alcohols and aromatic alcohols and is less sensitive to pyrazole. This gene is localized to chromosome 4 in the cluster of alcohol dehydrogenase genes.
Molecular Weight:	40 kDa
Gene ID:	127
UniProt:	P08319
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat 1. Li M, Edenberg HJ (1998). "Function of cis-acting elements in human alcohol dehydrogenase 4 (ADH4) promoter and role of C/EBP proteins in gene expression.". DNA Cell Biol. 17 (4): 387-97. 2. Luo X, Kranzler HR, Zuo L, et al. (2006). "ADH4 gene variation is associated with alcohol and drug dependence: results from family controlled and population-structured association studies.".Pharmacogenet. Genomics 15(11): 755-68.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

Handling

Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of ADH4 expression in rat liver extract (Lane 1), mouse liver extract (Lane 2) and HEPG2 whole cell lysates (Lane 3). ADH4 at 40KD was detected using rabbit anti- ADH4 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).