

Anti-ADH1A Picoband Antibody

Catalog # ABO11647

Product Information

Application	WB, IHC-P
Primary Accession	P07327
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Alcohol dehydrogenase 1A(ADH1A) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	124
Other Names	Alcohol dehydrogenase 1A, 1.1.1.1, Alcohol dehydrogenase subunit alpha, ADH1A, ADH1
Calculated MW	39859
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm.
Source	Eukaryota
Protein Name	Alcohol dehydrogenase 1A
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived human ADH1A recombinant protein (Position: K213-F375). Human ADH1A shares 87.1% and 82.8% amino acid (aa) sequence identity with mouse and rat ADH1A, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated

freezing and thawing.

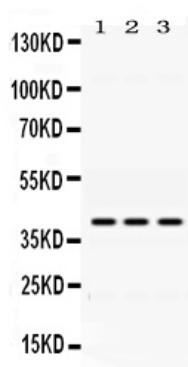
Protein Information

Name	ADH1A
Synonyms	ADH1
Function	Alcohol dehydrogenase (PubMed: 2738060). Oxidizes primary as well as secondary alcohols. Ethanol is a very poor substrate (PubMed: 2738060).
Cellular Location	Cytoplasm.

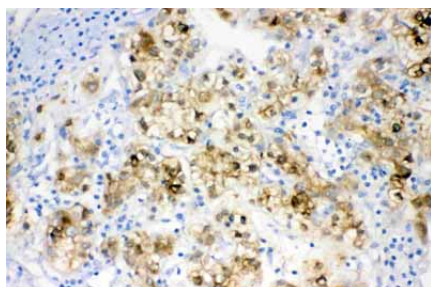
Background

Alcohol dehydrogenase 1A is an enzyme that in humans is encoded by the ADH1A gene. This gene encodes a member of the alcohol dehydrogenase family. The encoded protein is the alpha subunit of class I alcohol dehydrogenase, which consists of several homo- and heterodimers of alpha, beta and gamma subunits. Alcohol dehydrogenases catalyze the oxidation of alcohols to aldehydes. This gene is active in the liver in early fetal life but only weakly active in adult liver. And this gene is found in a cluster with six additional alcohol dehydrogenase genes, including those encoding the beta and gamma subunits, on the long arm of chromosome 4. Mutations in this gene may contribute to variation in certain personality traits and substance dependence.

Images



Western blot analysis of ADH1A expression in rat lung extract (lane 1), mouse liver extract (lane 2) and HEPG2 whole cell lysates (lane 3). ADH1A at 40KD was detected using rabbit anti- ADH1A Antigen Affinity purified polyclonal antibody (Catalog # ABO11647) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method .



ADH1A was detected in paraffin-embedded sections of human liver cancer tissues using rabbit anti- ADH1A Antigen Affinity purified polyclonal antibody (Catalog # ABO11647) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.