

ADH1B Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP6738C

Specification

ADH1B Antibody (Center) - Product Information

Application IF, FC, IHC-P, WB,E

Primary Accession <u>P00325</u>

Other Accession <u>P06757</u>, <u>P00329</u>, <u>P23991</u>, <u>P00326</u>, <u>P07327</u>

Reactivity Human

Predicted Chicken, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Antigen Region 209-237

ADH1B Antibody (Center) - Additional Information

Gene ID 125

Other Names

Alcohol dehydrogenase 1B, Alcohol dehydrogenase subunit beta, ADH1B, ADH2

Target/Specificity

This ADH1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 209-237 amino acids from the Central region of human ADH1B.

Dilution

IF~~1:10~50 FC~~1:10~50 IHC-P~~1:50~100 WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ADH1B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ADH1B Antibody (Center) - Protein Information





Name ADH1B (HGNC:250)

Synonyms ADH2

Function Catalyzes the NAD-dependent oxidation of all-trans-retinol and its derivatives such as all-trans-4-hydroxyretinol and may participate in retinoid metabolism (PubMed:15369820, PubMed:16787387). In vitro can also catalyze the NADH-dependent reduction of all-trans- retinal and its derivatives such as all-trans-4-oxoretinal (PubMed:15369820, PubMed:16787387). Catalyzes in the oxidative direction with higher efficiency (PubMed:16787387). Has the same affinity for all-trans-4-hydroxyretinol and all-trans-4-oxoretinal (PubMed:15369820).

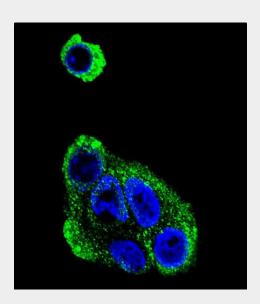
Cellular Location Cytoplasm.

ADH1B Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

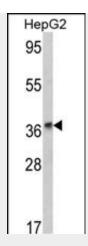
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

ADH1B Antibody (Center) - Images

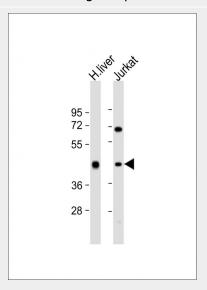


Confocal immunofluorescent analysis of ADH1B Antibody (Center)(Cat#AP6738c) with HepG2 cell followed by Alexa Fluor® 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

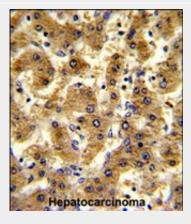




Western blot analysis of ADH1B Antibody (Center) (Cat. #AP6738c) in HepG2 cell line lysates (35ug/lane). ADH1B (arrow) was detected using the purified Pab.

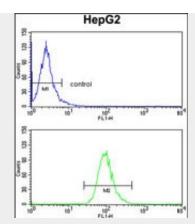


All lanes : Anti-ADH1B Antibody (Center) at 1:2000 dilution Lane 1: human liver lysate Lane 2: Jurkat whole cell lysate Lysates/proteins at 20 μ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 40 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with ADH1B Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.





ADH1B Antibody (Center) (Cat.#AP6738c) flow cytometry analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADH1B Antibody (Center) - Background

The protein 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. This encoded protein, consisting of several homoand heterodimers of alpha, beta, and gamma subunits, exhibits high activity for ethanol oxidation and plays a major role in ethanol catabolism.

ADH1B Antibody (Center) - References

Alcohol intake, Am. J. Gastroenterol. 104 (9), 2182-2188 (2009) Nishimura, F.T., Nihon Arukoru Yakubutsu Igakkai Zasshi 44 (3), 139-155 (2009)