

ADH1B Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6738C

Specification

ADH1B Antibody (Center) - Product Information

Application	IF, WB, IHC-P, FC,E
Primary Accession	P00325
Other Accession	P06757 , P00329 , P23991 , P00326 , P07327
Reactivity Predicted	Human Chicken, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
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

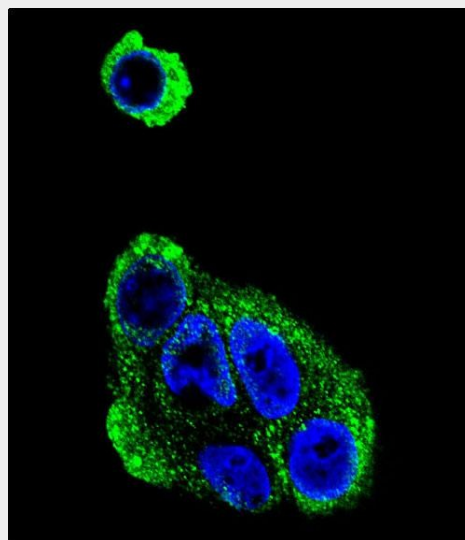
IF~~1:10~50
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format

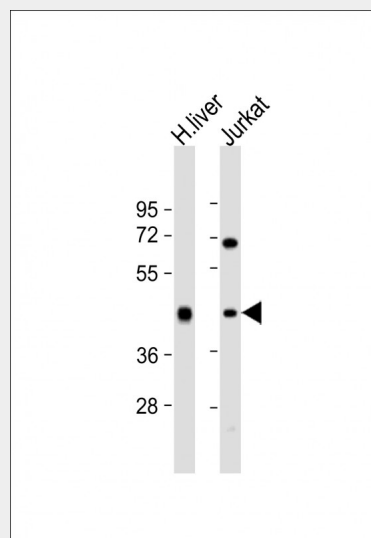
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2



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).



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 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.

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](http://www.uniprot.org/citations/15369820)

[target="_blank">15369820, PubMed:\[16787387\]\(http://www.uniprot.org/citations/16787387\)](http://www.uniprot.org/citations/15369820)

[target="_blank">16787387\). In vitro can also catalyzes the NADH-dependent reduction of all-trans- retinal and its derivatives such as all-trans-4-oxoretinal \(PubMed:\[15369820\]\(http://www.uniprot.org/citations/15369820\)](http://www.uniprot.org/citations/16787387)

[target="_blank">15369820, PubMed:\[16787387\]\(http://www.uniprot.org/citations/16787387\)](http://www.uniprot.org/citations/15369820)

[target="_blank">16787387\). Catalyzes in the oxidative direction with higher efficiency \(PubMed:\[16787387\]\(http://www.uniprot.org/citations/16787387\) \[target="_blank">16787387\\). Has the same affinity for all-trans-4-hydroxyretinol and all-trans-4-oxoretinal \\(PubMed:\\[15369820\\]\\(http://www.uniprot.org/citations/15369820\\) \\[target="_blank">15369820\\\).\\]\\(http://www.uniprot.org/citations/15369820\\)\]\(http://www.uniprot.org/citations/16787387\)](http://www.uniprot.org/citations/16787387)

Cellular Location

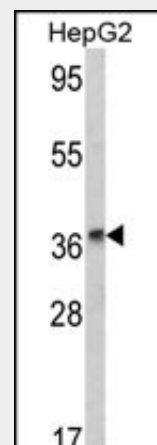
Cytoplasm.

ADH1B Antibody (Center) - Protocols

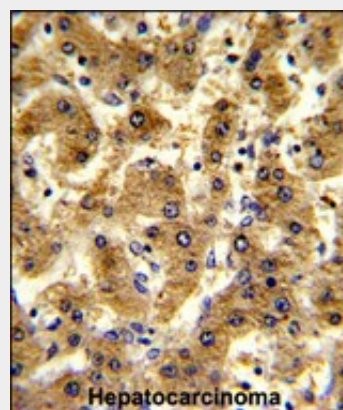
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)

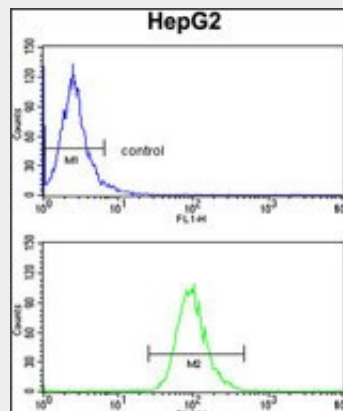
Predicted band size : 40 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



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



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.



- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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 homo- and 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)