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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	**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
WB~~1:2000
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 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).

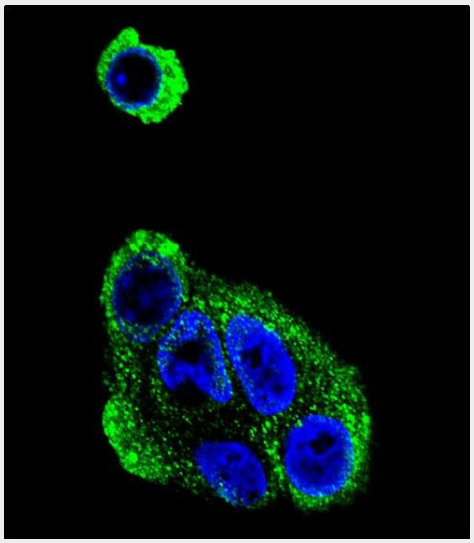
Cellular Location
Cytoplasm.

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
- Immunoprecipitation
- 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 lgG (green). DAPI was used to stain the cell nuclear (blue).

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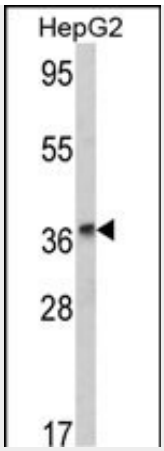
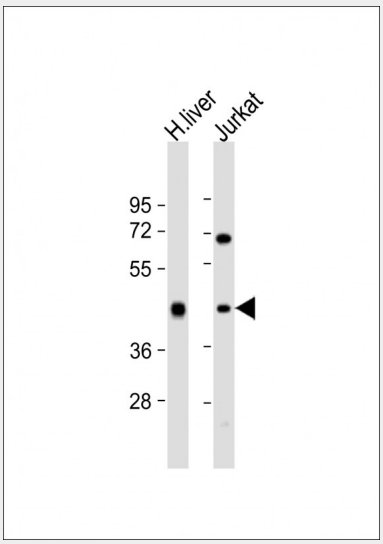
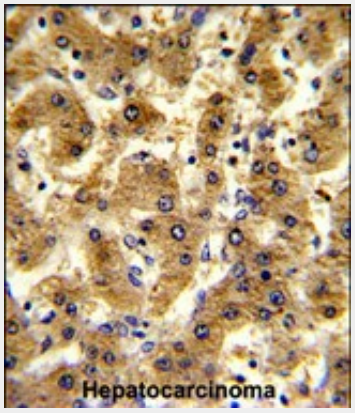


Western blot analysis of ADH1B Antibody (Center) (Cat. #AP6738c) in HepG2 cell line lysates (35ug/lane). ADH1B (arrow) was detected using the purified Pab.



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 µg 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.

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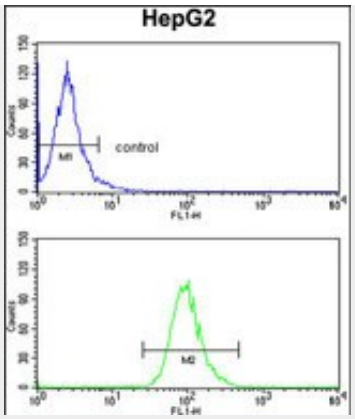

ADH1B Antibody (Center) (Cat.#AP6738c) flow cytometry analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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)