

**ADH1C Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5534C****Specification**

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**ADH1C Antibody (Center) - Product Information**

Application	IF, WB, IHC-P, FC,E
Primary Accession	<a href="#">P00326</a>
Other Accession	<a href="#">P00325</a> , <a href="#">P07327</a> , <a href="#">NP_000660.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	39868
Antigen Region	231-260

**ADH1C Antibody (Center) - Additional Information****Gene ID** 126**Other Names**

Alcohol dehydrogenase 1C, Alcohol dehydrogenase subunit gamma, ADH1C, ADH3

**Target/Specificity**

This ADH1C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 231-260 amino acids from the Central region of human ADH1C.

**Dilution**

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

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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**

ADH1C Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**ADH1C Antibody (Center) - Protein Information****Name** ADH1C

**Synonyms** ADH3

**Function** Alcohol dehydrogenase. Exhibits high activity for ethanol oxidation and plays a major role in ethanol catabolism.

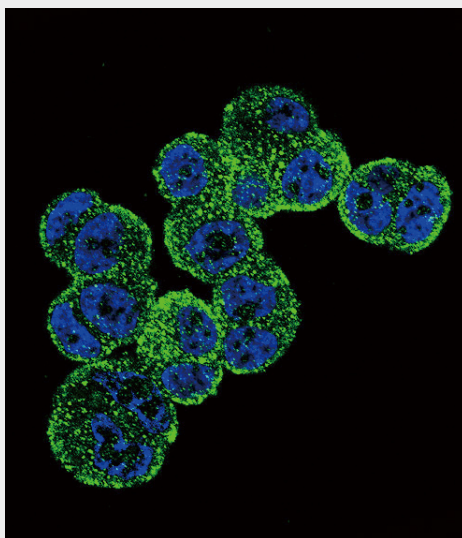
**Cellular Location**

Cytoplasm.

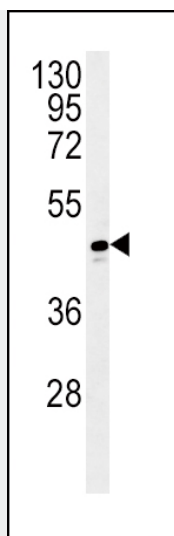
**ADH1C Antibody (Center) - Protocols**

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

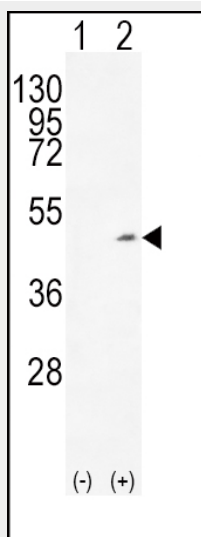
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ADH1C Antibody (Center) - Images**

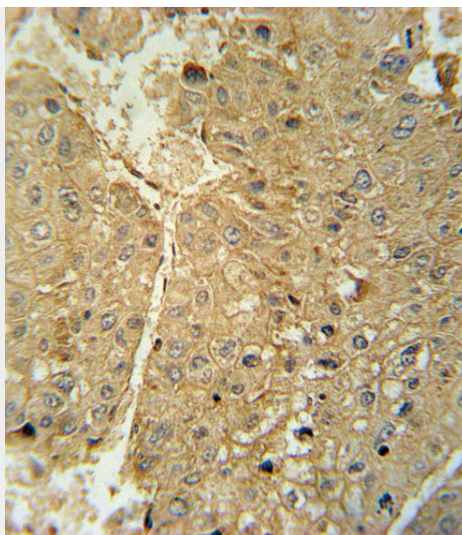
Confocal immunofluorescent analysis of ADH1C Antibody (Center)(Cat#AP5534c) with T47D cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



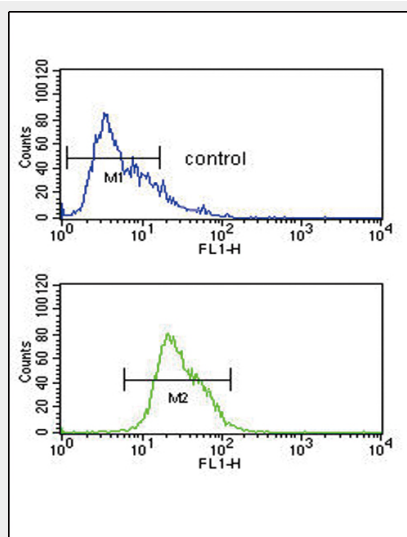
ADH1C Antibody (Center) (Cat. #AP5534c) western blot analysis in T47D cell line lysates (35ug/lane). This demonstrates the ADH1C antibody detected the ADH1C protein (arrow).



Western blot analysis of ADH1C (arrow) using rabbit polyclonal ADH1C Antibody (Center) (Cat. #AP5534c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ADH1C gene.



ADH1C Antibody (Center) (Cat. #AP5534c) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ADH1C Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



ADH1C Antibody (Center) (Cat. #AP5534c) flow cytometric analysis of CEM cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### ADH1C Antibody (Center) - Background

This gene encodes class I alcohol dehydrogenase, gamma 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 I alcohol dehydrogenase, 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. Three genes encoding alpha, beta and gamma subunits are tandemly organized in a genomic segment as a gene cluster.

### **ADH1C Antibody (Center) - References**

Benzon Larsen, S., et al. Cancer Lett. (2010) In press :  
Sangrajrang, S., et al. Breast Cancer Res. Treat. (2010)  
Khan, A.J., et al. Drug Alcohol Depend (2010) In press :