

## Product datasheet

### Anti-ADH5 antibody [EPR12885(B)] ab177932

Recombinant RabMAb

★★★★★ [3 Abreviews](#) [3 References](#) [7 Images](#)

#### Overview

<b>Product name</b>	Anti-ADH5 antibody [EPR12885(B)]
<b>Description</b>	Rabbit monoclonal [EPR12885(B)] to ADH5
<b>Host species</b>	Rabbit
<b>Specificity</b>	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human ADH5 aa 1-100. The exact sequence is proprietary. Database link: <a href="#">P11766</a>
<b>Positive control</b>	WB: Human liver, Mouse liver, Human fetal liver, HepG2, Human fetal kidney, SH-SY5Y, Mouse brain, Rat liver, and Rat brain lysates. IHC-P: human kidney tissue.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

**Clone number** EPR12885(B)  
**Isotype** IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab177932 in the following tested applications.  
 The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	1/1000 - 1/5000. Predicted molecular weight: 40 kDa.
IHC-P		1/8000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat. See <b><u>IHC antigen retrieval protocols</u></b> . For unpurified use at 1/50-1/100

**Application notes** Is unsuitable for Flow Cyt, ICC/IF or IP.

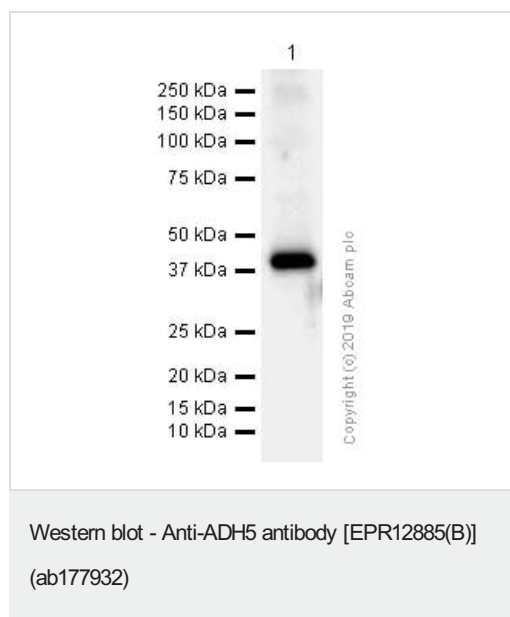
## Target

**Function** Class-III ADH is remarkably ineffective in oxidizing ethanol, but it readily catalyzes the oxidation of long-chain primary alcohols and the oxidation of S-(hydroxymethyl) glutathione.

**Sequence similarities** Belongs to the zinc-containing alcohol dehydrogenase family. Class-III subfamily.

**Cellular localization** Cytoplasm.

## Images



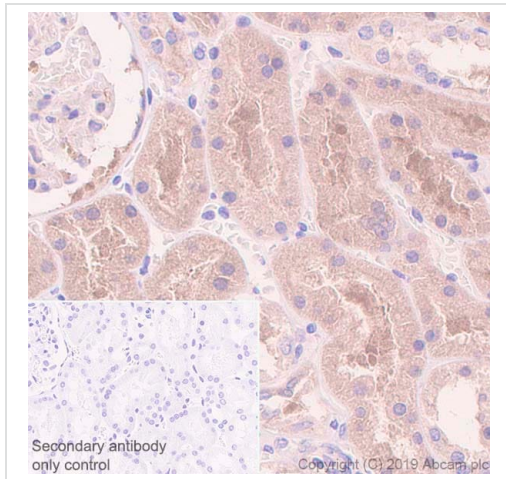
Anti-ADH5 antibody [EPR12885(B)] (ab177932) at 1/5000 dilution  
 (Purified) + Human liver lysates at 15 µg

### Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

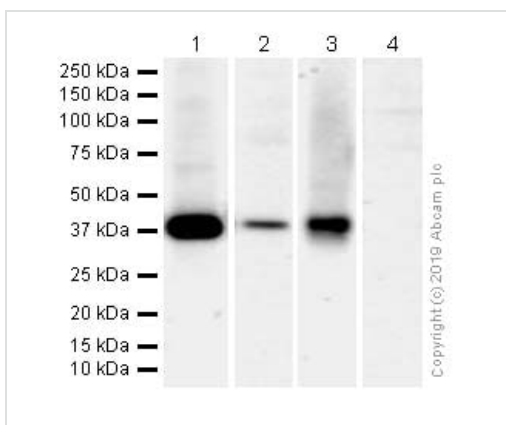
**Predicted band size:** 40 kDa

**Observed band size:** 40 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADH5 antibody [EPR12885(B)] (ab177932)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue sections labeling ADH5 with purified ab177932 at 1/8000 dilution (0.06 µg/ml). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-ADH5 antibody [EPR12885(B)] (ab177932)

**All lanes :** Anti-ADH5 antibody [EPR12885(B)] (ab177932) at 1/5000 dilution (Purified)

**Lane 1 :** Mouse liver lysates

**Lane 2 :** Mouse brain lysates

**Lane 3 :** Rat liver lysates

**Lane 4 :** Rat brain lysates

Lysates/proteins at 15 µg per lane.

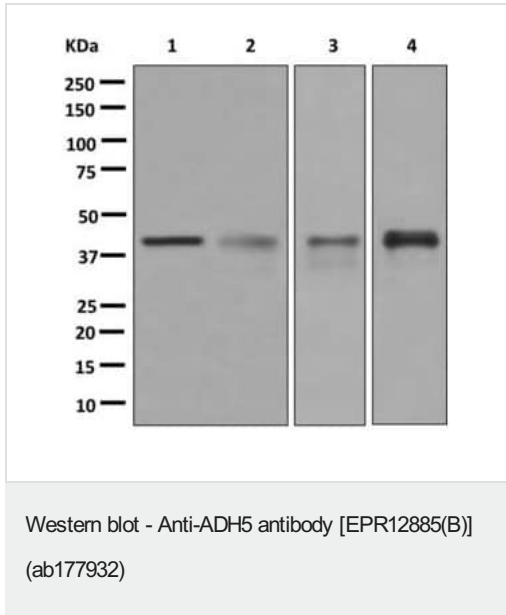
#### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 40 kDa

**Observed band size:** 40 kDa

ADH5 is highly expressed in liver, kidney and low expressed in brain as is described in PMID: 26412304



**All lanes :** Anti-ADH5 antibody [EPR12885(B)] (ab177932) at 1/1000 dilution ((unpurified))

**Lane 1 :** Human fetal liver lysates

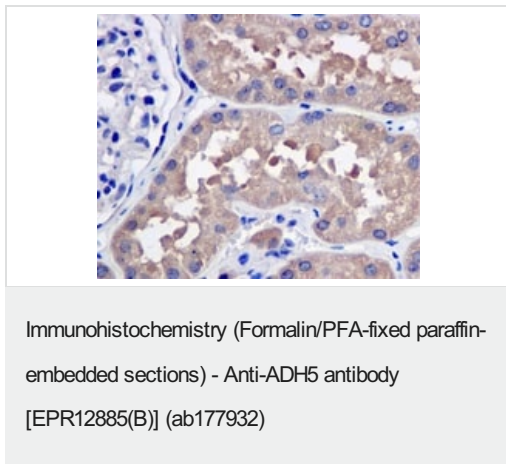
**Lane 2 :** HepG2 lysates

**Lane 3 :** Human fetal kidney lysates

**Lane 4 :** SH-SY5Y lysates

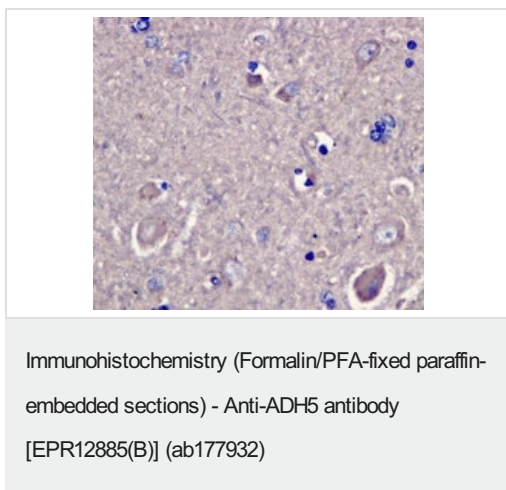
Lysates/proteins at 10 µg per lane.

**Predicted band size:** 40 kDa



Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling ADH5 with unpurified ab177932 at a 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling ADH5 with unpurified ab177932 at a 1/50 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-ADH5 antibody [EPR12885(B)] (ab177932)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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