Product datasheet

Anti-Apolipoprotein B antibody ab98132

Overview

Product name          Anti-Apolipoprotein B antibody
Description          Goat polyclonal to Apolipoprotein B
Host species        Goat
Specificity          This antibody has negligible cross-reactivity with Type A-I, A-II, C-I, C-II, C-III, E and J apolipoproteins. Typically less than 1% cross-reactivity against other types of apolipoprotein was detected by ELISA against purified standards. Non-specific cross-reaction of anti-apolipoprotein antibodies with other Human serum proteins is negligible.

Tested applications

Suitable for: WB, IP, ELISA, IHC-P

Species reactivity

Reacts with: Human

Immunogen

Full length native Human Apolipoprotein B isolated from Human plasma.

Positive control

Human liver tissue

Properties

Form             Liquid
Storage instructions

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer

pH: 8.00
Preservative: 0.01% Sodium azide
 Constituents: 40% Glycerol, 0.435% Sodium chloride, 0.146% EDTA, 4.7625% Sodium borate

Purity

Immunogen affinity purified

Purification notes

Purified by density gradient centrifugation, followed by HPLC purification

Clonality

Polyclonal

Isotype

IgG

Applications

Our Abpromise guarantee covers the use of ab98132 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Apolipoprotein B is a major protein constituent of chylomicrons (apo B-48), LDL (apo B-100) and VLDL (apo B-100). Apo B-100 functions as a recognition signal for the cellular binding and internalization of LDL particles by the apoB/E receptor.

Involvement in disease
Hypobetalipoproteinemia, familial, 1 Familial ligand-defective apolipoprotein B-100 Defects in APOB associated with defects in other genes (polygenic) can contribute to hypocholesterolemia.

Sequence similarities
Contains 1 vitellogenin domain.

Post-translational modifications
Palmitoylated; structural requirement for proper assembly of the hydrophobic core of the lipoprotein particle.

Cellular localization
Cytoplasm. Secreted.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>1/1000 - 1/5000.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>![Image]</td>
<td>Use a concentration of 5 μg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
</tr>
<tr>
<td>EMSA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

Target

Images

Immunochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Apolipoprotein B antibody (ab98132)

Immunohistochemical analysis of formalin fixed, paraffin embedded Human liver tissue labelled with ab98132 at 5 μg/ml followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.
ab98132 staining Apolipoprotein B in Mouse liver tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked for 15 minutes at room temperature; antigen retrieval was by heat mediation in a citrate buffer pH6.0. Samples were incubated with primary antibody (0.5 µg/ml in BSA/TBS buffer) for 30 minutes. ab97101 Rabbit polyclonal Secondary Antibody to Anti-goat HRP, IgG - H&L, pre-adsorbed (1/500) was used as the secondary antibody.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors