Product datasheet

Anti-Apolipoprotein B antibody ab20737

Overview

Product name
Anti-Apolipoprotein B antibody

Description
Rabbit polyclonal to Apolipoprotein B

Host species
Rabbit

Specificity
Cross-reacts with Apo B48 and B100.

Tested applications
Suitable for: IHC-Fr, IP, ELISA, IHC-P, Immunodiffusion, WB

Species reactivity
Reacts with: Mouse, Human

Immunogen
Full length native protein (purified) corresponding to Mouse Apolipoprotein B. Apolipoprotein B48 purified from pooled mouse plasma very low-density lipoprotein.

Properties

Form
Liquid

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

Storage buffer
Preservative: 0.05% Sodium azide
Constituent: Whole serum

Purity
Whole antiserum

Purification notes
Heat inactivated. Product is 0.22um filtered.

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab20737 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>IHC-Fr</td>
<td>★★★★☆☆☆☆</td>
<td>1/1000.</td>
</tr>
<tr>
<td>IP</td>
<td>★★★★☆☆☆☆</td>
<td>Use at an assay dependent concentration. PubMed: 18497885</td>
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</tbody>
</table>
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>
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<th>Abviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>ELISA</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 21668821</td>
</tr>
<tr>
<td>IHC-P</td>
<td>★★★★</td>
<td>1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
</tr>
<tr>
<td>Immunodiffusion</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>WB</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration. Predicted molecular weight: 549 kDa.</td>
</tr>
</tbody>
</table>

Images

ab20737 staining Apolipoprotein B in murine intestinal tissue by Immunohistochemistry (frozen sections). Tissue was fixed with 10% formalin and permeabilized using Triton X-100. Samples were then blocked with 10% serum for 30 minutes at 24°C followed by incubation with the primary antibody, at a 1/100 dilution, for 16 hours at 4°C. A donkey anti-rabbit F(ab’)2 fragment conjugated to Cy5® was used as secondary antibody at a 1/1000 dilution.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Apolipoprotein B antibody (ab20737)

Image courtesy of Ryusuke Takechi by Abreview.

ab20737 at a 1/100 dilution staining Apolipoprotein B in murine small intestinal tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed in paraformaldehyde and a heat mediated antigen retrieval step was performed. Samples were then permeabilized using 0.2% PBST and blocked using 20% serum. An Alexa Fluor® 488 conjugated Goat anti-rabbit IgG was used as the secondary at a 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Apolipoprotein B antibody (ab20737)

This image is courtesy of an anonymous Abreview.

ab20737 staining Apolipoprotein in Mouse kidney tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with 10% neutral buffered formalin and blocked with 1.5% serum for 45 minutes at 21°C; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (8.5ug/ml in 0.3% Triton X-100 in PBS) for 1 hour at 21°C. A Biotin-conjugated Goat anti-rabbit IgG polyclonal (7ug/ml) was used as the secondary antibody.

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