**Product datasheet**

**Anti-Apolipoprotein B antibody ab20737**

- **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>
</tr>
</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>
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.

### Images

**ELISA**
Use at an assay dependent concentration. PubMed: 21668821

**IHC-P**
1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

**Immunodiffusion**
Use at an assay dependent concentration.

**WB**
Use at an assay dependent concentration. Predicted molecular weight: 549 kDa.

**Target**

**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
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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.

**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.
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.

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.

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

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