APOB Polyclonal antibody

Catalog Number: 20578-1-AP

Basic Information

- **Catalog Number:** 20578-1-AP
- **Size:** 150μL, Concentration: 300 μg/ml by Bradford method using BSA as the standard
- **Source:** Rabbit
- **Isotype:** IgG
- **GenBank Accession Number:** NM_000384
- **GeneID (NCBI):** 338
- **Full Name:** apolipoprotein B (including Ag(x) antigen)
- **Calculated MW:** 516 kDa
- **Observed MW:** 130-150 kDa, 200-250 kDa, 400-520 kDa
- **Purification Method:** Antigen affinity purification
- **Recommended Dilutions:**
  - **WB:** 1:500-1:2000
  - **IHC:** 1:20-1:200
  - **IF:** 1:20-1:200

Applications

- **Tested Applications:** IF, IHC, WB, ELISA
- **Cited Applications:** IF, WB
- **Species Specificity:** human, mouse
- **Cited Species:** human, mouse, rat

**Note:** IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

The apolipoprotein B (ApoB) is a plasma protein synthesized primarily in the liver and intestine and play an important role in lipid and cholesterol metabolism. The ApoB gene encodes two different isoproteins through mRNA editing: ApoB-48 and ApoB-100. ApoB-100 is synthesized exclusively by the liver and is essential for the assembly of VLDL in the liver. ApoB-48 is synthesized exclusively by the small intestine and is essential for the assembly of chylomicrons in the intestine. ApoB-48 and ApoB-100 share a common N-terminal sequence, but ApoB-48 lacks ApoB-100's C-terminal LDL receptor binding region. It is well established that ApoB-100 levels are associated with coronary heart disease. This antibody recognizes both of ApoB-48 and ApoB-100.

Notable Publications

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<tr>
<th>Author</th>
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<tbody>
<tr>
<td>David B Melville</td>
<td>32358066</td>
<td>J Biol Chem</td>
<td>WB</td>
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<tr>
<td>Taiwei Chen</td>
<td>32151799</td>
<td>EBioMedicine</td>
<td>WB, IF</td>
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<tr>
<td>Zhuojun Zhang</td>
<td>32546794</td>
<td>Nat Commun</td>
<td>WB</td>
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Storage

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting:** is unnecessary for -20°C storage

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**For technical support and original validation data for this product please contact:**
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mouse liver and human plasma were subjected to SDS PAGE followed by western blot with 20578-1-AP (APOB antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human liver slide using 20578-1-AP (APOB Antibody) at dilution of 1:50.

Immunofluorescent analysis of (-20 Ethanol) fixed HepG2 cells using 20578-1-AP (APOB antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Selected Validation Data