

DESCRIPTION

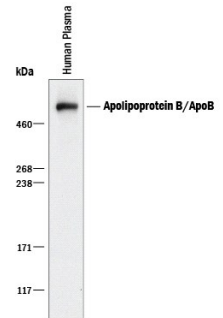
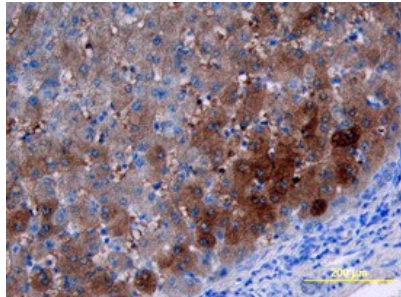
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| Species Reactivity | Human |
| Specificity | Detects human Apolipoprotein B in direct ELISAs and Western blots. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 369717 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant human ApoB Met1206-Asp1413 Accession # NP_000375 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|-----------------------------|---------------------------|-----------|
| Western Blot | 2 µg/mL | See Below |
| Immunohistochemistry | 8-25 µg/mL | See Below |

DATA

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| <p>Western Blot</p>  <p>Detection of Human Apolipoprotein B/ApoB by Western Blot. Western blot shows human plasma. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Apolipoprotein B/ApoB Monoclonal Antibody (Catalog # MAB4124) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Apolipoprotein B/ApoB at approximately 500 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p> | <p>Immunohistochemistry</p>  <p>Apolipoprotein B/ApoB in Human Liver. Apolipoprotein B/ApoB was detected in immersion fixed paraffin-embedded sections of human liver using Mouse Anti-Human Apolipoprotein B/ApoB Monoclonal Antibody (Catalog # MAB4124) at 8 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p> |
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PREPARATION AND STORAGE

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| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

Human ApoB (Apolipoprotein B-100) is a 550 kDa, secreted, palmitoylated glycoprotein that is part of LDL and VLDL particles. It is made by liver and is 4536 amino acids (aa) in length. It binds LDL to the ApoB/E receptor. Multiple forms of ApoB-100 exist; ApoB-25, 26, 29, 37, 39, 48, and 74. The numbers reflect each molecule's predicted MW as a percentage of ApoB-100 (512 kDa). Amino acids 1206-1414 of the precursor were used for immunization. Based on likelihood of secretion, this antibody may recognize B26 (1297 aa), B37 (1728 aa), B39 (1799 aa), and B48 (2152 aa). Over the immunization polypeptide range, human ApoB-100 is 80% and 82% aa identical to mouse and dog ApoB-100, respectively.