

DESCRIPTION

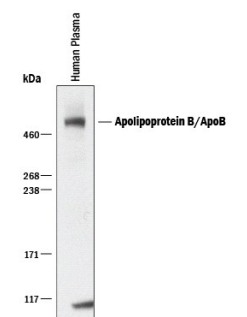
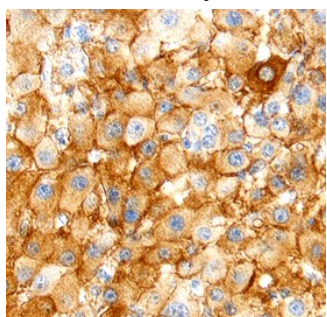
Species Reactivity	Human
Specificity	Detects human Apolipoprotein B/ApoB in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Apolipoprotein B/ApoB Met1206-Asp1413 Accession # NP_000375
Formulation	Lyophilized 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	1 µg/mL	See Below
Immunohistochemistry	1-15 µg/mL	See Below

DATA

<p>Western Blot</p> 	<p>Detection of Human Apolipoprotein B/ApoB by Western Blot. Western blot shows human plasma. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human Apolipoprotein B/ApoB Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3556) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). 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 Goat Anti-Human Apolipoprotein B/ApoB Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3556) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm and plasma membrane of hepatocytes. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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

ApoB is a component of LDL and VLDL particles and chylomicans. ApoB100, the full-length ApoB synthesized in the liver, is a 512 kDa secreted palmitoylated glycoprotein that contains 4536 amino acid residues. A truncated ApoB designated ApoB48, containing the N-terminal 48% of ApoB100, is also produced by the intestine as a result of post-transcriptional modification of the ApoB mRNA. Additionally, C-terminal truncated ApoB, varying in length from ApoB25 to ApoB89, exists as a result of mutations in the ApoB gene. Within the region used as the immunogen, the amino acid sequence of the human peptide is 80% and 82% identical to the mouse and canine sequence, respectively.