

**Anti-Apolipoprotein B Picoband Antibody**  
Catalog # ABO11660**Specification**

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**Anti-Apolipoprotein B Picoband Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">P04114</a>
Host	<b>Rabbit</b>
Reactivity	<b>Human</b>
Clonality	<b>Polyclonal</b>
Format	<b>Lyophilized</b>

**Description**

Rabbit IgG polyclonal antibody for Apolipoprotein B-100(APOB) detection. Tested with WB, IHC-P in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Apolipoprotein B Picoband Antibody - Additional Information**

**Gene ID** 338

**Other Names**

Apolipoprotein B-100, Apo B-100, Apolipoprotein B-48, Apo B-48, APOB

**Calculated MW**

515605 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br><br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Cytoplasm . Secreted .

**Protein Name**

Apolipoprotein B-100

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>N.

**Immunogen**

E. coli-derived human Apolipoprotein B recombinant protein (Position: Q246-N450). Human Apolipoprotein B shares 82.4% and 80.5% amino acid (aa) sequence identity with mouse and rat Apolipoprotein B, respectively.

**Purification**

Immunogen affinity purified.

### Cross Reactivity

No cross reactivity with other proteins

### Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

## Anti-Apolipoprotein B Picoband Antibody - Protein Information

**Name** APOB

### 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.

### Cellular Location

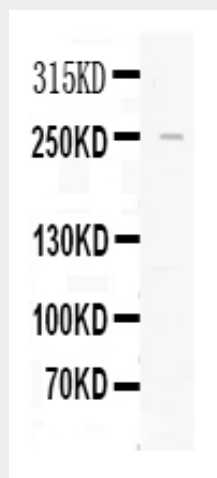
Cytoplasm. Secreted. Lipid droplet

## Anti-Apolipoprotein B Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

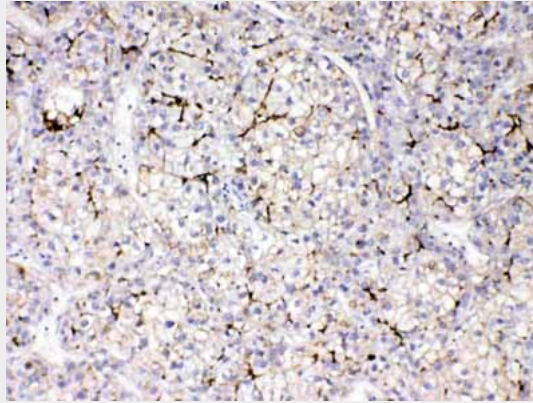
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Apolipoprotein B Picoband Antibody - Images



Western blot analysis of Apolipoprotein B expression in HELA whole cell lysates (lane 1). Apolipoprotein B at 250KD was detected using rabbit anti- Apolipoprotein B Antigen Affinity

purified polyclonal antibody (Catalog # ABO11660) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



Apolipoprotein B was detected in paraffin-embedded sections of human liver cancer tissues using rabbit anti- Apolipoprotein B Antigen Affinity purified polyclonal antibody (Catalog # ABO11660) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

### **Anti-Apolipoprotein B Picoband Antibody - Background**

Apolipoprotein B (ApoB) is a protein that in humans is encoded by the APOB gene. This gene product is the main apolipoprotein of chylomicrons and low density lipoproteins. It occurs in plasma as two main isoforms, apoB-48 and apoB-100: the former is synthesized exclusively in the gut and the latter in the liver. The intestinal and the hepatic forms of apoB are encoded by a single gene from a single, very long mRNA. The two isoforms share a common N-terminal sequence. The shorter apoB-48 protein is produced after RNA editing of the apoB-100 transcript at residue 2180 (CAA->UAA), resulting in the creation of a stop codon, and early translation termination. Mutations in this gene or its regulatory region cause hypobetalipoproteinemia, normotriglyceridemic hypobetalipoproteinemia, and hypercholesterolemia due to ligand-defective apoB, diseases affecting plasma cholesterol and apoB levels.