

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

Anti-Apolipoprotein B Picoband Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P04114
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

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

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Cytoplasm . Secreted .

Protein Name

Apolipoprotein B-100

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

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.

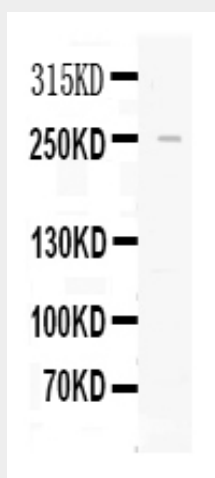
Cellular Location

Cytoplasm. Secreted. Lipid droplet

Anti-Apolipoprotein B Picoband Antibody - Protocols

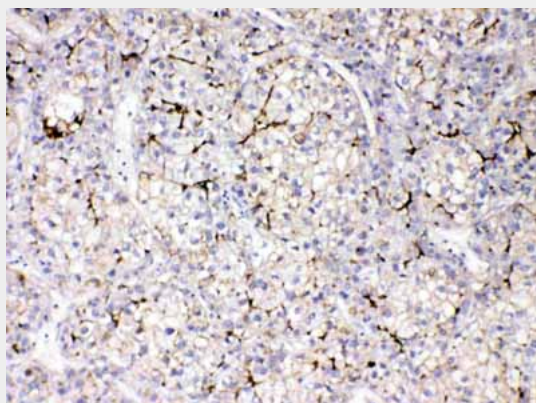
Provided below are standard protocols that you may find useful for product applications.

- [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.