Datasheet for ABIN4886467

anti-APOB antibody (AA 246-450)

2 Images

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Overview

Quantity:	100 µg
Target:	APOB
Binding Specificity:	AA 246-450
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APOB antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Apolipoprotein B/APOB Antibody Picoband®
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Apolipoprotein B/APOB Antibody Picoband® (ABIN4886467). Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	APOB
Alternative Name:	APOB (APOB Products)
Background:	Synonyms: Apolipoprotein B-100,Apo B-100,Apolipoprotein B-48,Apo B-48,APOB, Tissue Specificity: Widely expressed (at protein level). Specifically expressed in the CNS. . 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.
Molecular Weight:	250 kDa
Gene ID:	338
UniProt:	P04114
Pathways:	Lipid Metabolism

Application Details

Application Notes:	Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human Western blot, 0.1-0.5 µg/mL, Human 1. Jacobson TA (2011). "Opening a new lipid "apo-thecary": incorporating apolipoproteins as potential risk factors and treatment targets to reduce cardiovascular risk". Mayo Clinic Proceedings 86 (8): 762-780. 2. Lim JS, Lee DH, Park JY, Jin SH, Jacobs DR (2011). "Reliability of low-absorbance lipoprotein cholesterol, non-high-absorbance lipoprotein cholesterol, and apolipoprotein B measurement".Journal of Clinical Lipidology 5 (4): 264-272.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

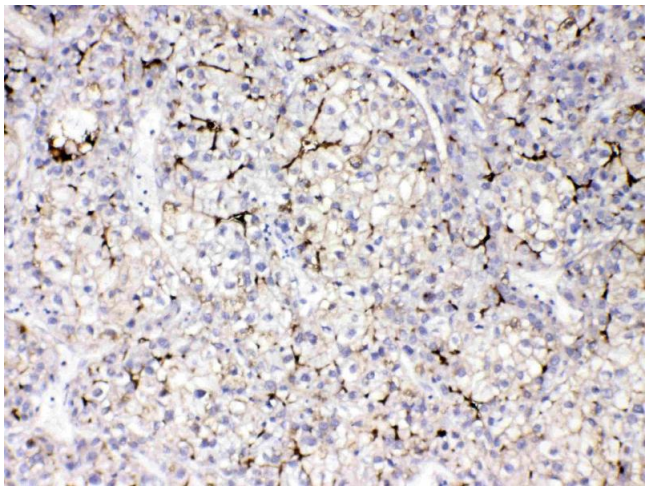
Application Details

	ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

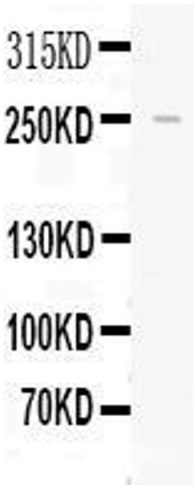
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Immunohistochemistry

Image 1. Apolipoprotein B was detected in paraffin-embedded sections of human liver cancer tissues using rabbit anti- Apolipoprotein B Antigen Affinity purified polyclonal antibody (Catalog #) at 1 ??g/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Western Blotting

Image 2. 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 #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).

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