

Rabbit anti-Human Apolipoprotein B Polyclonal Antibody | anti-APOB antibody

Anti-Apolipoprotein B Antibody

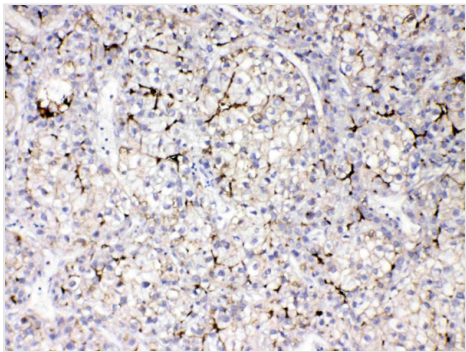
CATALOG # AAA46823	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

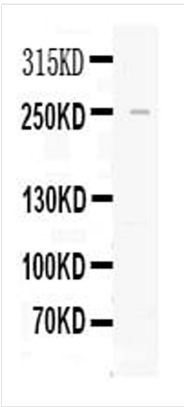
Apolipoprotein B; Polyclonal Antibody; Anti-Apolipoprotein B Antibody; Apo B-100; ApoB 100; Apo B-48; ApoB 48; APOB; Apolipoprotein B 100; Apolipoprotein B-48; Apolipoprotein B48; FLDB; LDLCQ4; P04114; anti-APOB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	4563
Applicable Applications for anti-APOB antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
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.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



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



WB (Western Blot)
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 at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-APOB antibody	Rabbit IgG polyclonal antibody for Apolipoprotein B-100(APOB) detection. 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.
References	1. Jacobson TA (2011). "Opening a new lipid "apo-theary": 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-density lipoprotein cholesterol, non-high-density lipoprotein cholesterol, and apolipoprotein B measurement".Journal of Clinical Lipidology 5 (4): 264-272.

NCBI AND UNIPROT INFORMATION

NCBI GI #	105990532
NCBI GeneID	338
NCBI Accession #	NP_000375.2
NCBI GenBank Nucleotide #	NM_000384.2
UniProt Accession #	P04114; O00502; P78479; P78480; P78481; Q13779; Q13785; Q13786; Q13787; Q13788; Q4ZG63; Q53QC8
Molecular Weight	515,605 Da
NCBI Official Full Name	apolipoprotein B-100
NCBI Official Synonym Full Names	apolipoprotein B
NCBI Official Symbol	APOB
NCBI Official Synonym Symbols	FLDB; LDLCQ4; apoB-48; apoB-100
NCBI Protein Information	apolipoprotein B-100
UniProt Protein Name	Apolipoprotein B-100

UniProt Gene Name	APOB
UniProt Synonym Gene Names	Apo B-100; Apo B-48

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/apolipoprotein-b-antibody-immunohistochemistry-western-blot-elisa/46823>