SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-ApoB antibody

Catalog Number: SL6333R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ApoB
Immunogen:	KLH conjugated synthetic peptide derived from human Apolipoprotein B: 1501-1700/4563
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	ELISA=1:5000-10000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Horse, Rabbit)
Predicted MW.:	241/513kDa
Subcellular Location:	cytoplasmic Secretory protein
Background:	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. Involvement in disease: Defects in APOB are a cause of hypobetalipoproteinemia familial type 1 (FHBL1) . A disorder characterized by highly reduced plasma concentrations of low density lipoproteins, and dietary fat malabsorption. Clinical presentation may vary from no symptoms to severe gastrointestinal and neurological dysfunction similar to abetalipoproteinemia. Defects in APOB are a cause of familial ligand-defective apolipoprotein B-100 (FDB). FDB is a dominantly inherited disorder of lipoprotein metabolism leading to hypercholesterolemia and increased proneness to coronary artery disease (CAD). The plasma cholesterol levels are dramatically elevated due to

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	impaired clearance of LDL particles by defective APOB/E receptors. **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. **Subcellular Location:** Secreted. **Post-translational modifications:** Palmitoylated; structural requirement for proper assembly of the hydrophobic core of the lipoprotein particle. DISEASE: Defects in APOB are a cause of familialhypobetalipoproteinemia type 1 (FHBL1) [MIM:107730]. A disordercharacterized by highly reduced plasma concentrations of lowdensity lipoproteins, and dietary fat malabsorption. Clinicalpresentation may vary from no symptoms to severe gastrointestinaland neurological dysfunction similar to abetalipoproteinemia. Defects in APOB are a cause of familial ligand-defectiveapolipoprotein B-100 (FDB) [MIM:144010]. FDB is a dominantlyinherited disorder of lipoprotein metabolism leading tohypercholesterolemia and increased proneness to coronary arterydisease (CAD). The plasma cholesterol levels are dramaticallyelevated due to impaired clearance of LDL particles by defectiveAPOB/E receptors. Note=Defects in APOB associated with defects in othergenes (polygenic) can contribute to hypocholesterolemia. **Similarity:** Contains 1 vitellogenin domain. **Database links:** **Entrez Gene:** 338 Human **Entrez Gene:** 238055 Mouse Omim: 107730 Human **SwissProt:** P04114 Human **SwissProt:** E9Q414 Mouse **Unigene:** 120759 Human **Unigene:** 221239 Mouse

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