APOB Rabbit pAb

CatalogNo: YT7819

Key Features

Host Species
- Rabbit

Reactivity
- Human,Rat,Mouse,

Applications
- WB,ELISA

MW
- 502kD (Calculated)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:1000-2000
ELISA 1:5000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human APOB
Specificity	This antibody detects endogenous levels of Human APOB

Target Information

Gene name	APOB

Protein Name	APOB

Organism	Gene ID	UniProt ID
Human	338;	P04114;

Cellular Localization	Cytoplasm . Secreted . Lipid droplet .
Function	Disease:Defects in APOB are a cause of familial hypobetalipoproteinemia (FHBL) [MIM:107730]. FHBL is a genetically heterogeneous autosomal co-dominant disorder, associated with reduced plasma concentrations of apoB, LDL and VLDL. Heterozygotes for FHBL are usually asymptomatic with LDL cholesterol and apoB-100 concentrations less than 50% of those in normal plasma. Homozygotes have extremely low plasma LDL cholesterol and apoB-100 concentrations, and clinical presentation may vary from no symptoms to severe gastrointestinal and neurological dysfunction similar to abetalipoproteinemia [MIM:200100].,Disease:Defects in APOB are a cause of familial ligand-defective apolipoprotein B-100 (FDB) [MIM:144010]. 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 impaired clearance of LDL particles by defective APOB/E receptors.,Disease:Defects in APOB associated with defects in other genes (polygenic) can contribute to hypocholesterolemia.,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.,online information:Apolipoprotein B entry,online information:The Singapore human mutation and polymorphism database,PTM:Palmitoylated; structural requirement for proper assembly of the hydrophobic core of the lipoprotein particle.,RNA editing:The stop codon (UAA) at position 2180 is created by RNA editing. Apo B-48, derived from the fully edited RNA, is produced only in the intestine and is found in chylomicrons. Apo B-48 is a shortened form of apo B-100 which lacks the LDL-receptor region. The unedited version (apo B-100) is produced by the liver and is found in the VLDL and LDL.,similarity:Contains 1 vitellogenin domain.,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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