10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-APOB Antibody

Peptide-affinity purified goat antibody

Catalog # AF1076a

Specification

Goat Anti-APOB Antibody - Product Information

Application	**WB**
Primary Accession	P04114
Other Accession	NP_000375, 338
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**515545**

Goat Anti-APOB Antibody - Additional Information

Gene ID 338

Other Names
Apolipoprotein B-100, Apo B-100, Apolipoprotein B-48, Apo B-48, APOB

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-APOB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-APOB 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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat Anti-APOB 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 Cytomety
- Cell Culture

Goat Anti-APOB Antibody - Images



AF1076a (0.5 µg/ml) staining of Human Serum lysates. Data kindly provided by Yan Xie and NO Davidson, Washington USA. This antibody showed background below 150kDa in serum samples . We call for caution when used for other assays than Western blot.

Goat Anti-APOB Antibody - Background

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.

Goat Anti-APOB Antibody - References

ApoB genetic variants modify the response to fenofibrate: a GOLDN study. Wojczynski MK, et al. J Lipid Res, 2010 Aug 19. PMID 20724655.
Pharmacogenetic analysis of lipid responses to rosuvastatin in Chinese patients. Hu M, et al. Pharmacogenet Genomics, 2010 Oct. PMID 20679960.
A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor rupture of membranes (PROM). Romero R, et al. Am J Obstet Gynecol, 2010 Jul 29. PMID 20673868.
Excess of rare variants in genes identified by genome-wide association study of hypertriglyceridemia. Johansen CT, et al. Nat Genet, 2010 Aug. PMID 20657596.
[Distribution characteristics of ApoB3'VNTR and hyperlipemia correlation factors in civil aircrew] Zhu F, et al. Zhonghua Lao Dong Wei Sheng Zhi Ye Bing Za Zhi, 2010 Mar. PMID 20635694.