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ApoB Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1564a

Product Information

Application	WB, FC, ICC, E
Primary Accession	P04114
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6G6
Isotype	IgG1
Calculated MW	515545
Description	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.
Immunogen	Purified recombinant fragment of human ApoB expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	338
Other Names	Apolipoprotein B-100, Apo B-100, Apolipoprotein B-48, Apo B-48, APOB
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
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	ApoB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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

References

1. Cell Host Microbe. 2008 Dec 11;4(6):555-66. 2. Atherosclerosis. 2009 Sep;206(1):17-30.

Images

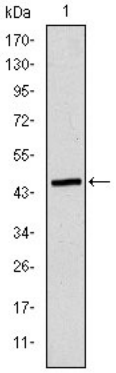


Figure 1: Western blot analysis using ApoB mAb against human ApoB (AA: 3900-4110) recombinant protein. (Expected MW is 45 kDa)

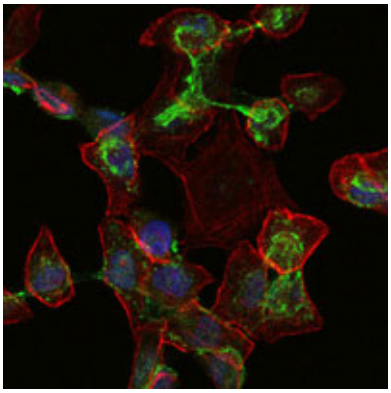


Figure 2: Immunofluorescence analysis of HepG2 cells using ApoB mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

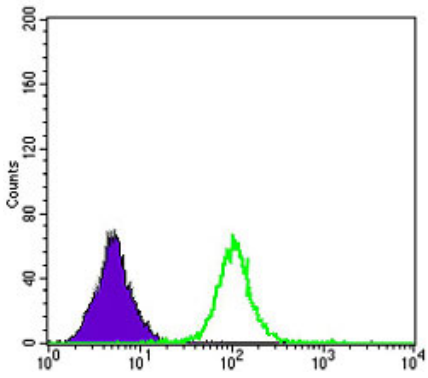
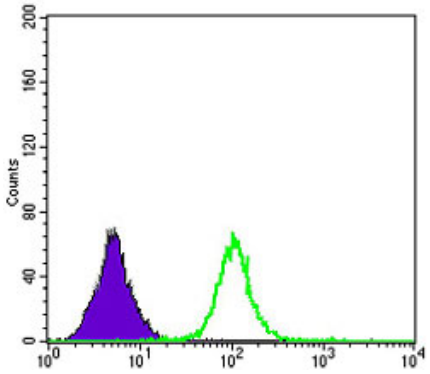


Figure 3: Flow cytometric analysis of serun using ApoB mouse mAb (green) and negative control (purple).

Figure 3: Flow cytometric analysis of PBMC using ApoB mouse mAb (green) and negative control (purple).



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