BT LAB
Bioassay Technology Laboratory
Optimize Your Research

ApoB Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA0171
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Purified recombinant fragment of human ApoB expressed in E. Coli.
Mol wt	N/A
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB, IF, ICC, FCM, ELISA
Concentration	1 mg/ml
Full name	Apolipoprotein B-100
Synonyms	APOB; Apolipoprotein B-100; Apo B-100

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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.

Recommended Dilution

ELISA: 1:10000

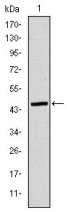
FC: 1:200 - 1:400

IF: 1:200 - 1:1000

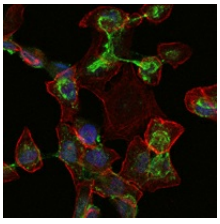
WB: 1:500 - 1:2000

Not yet tested in other applications.

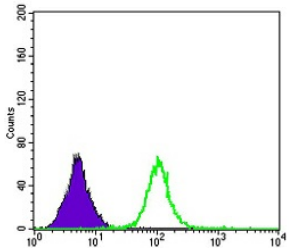
Images



Western Blot analysis using ApoB Monoclonal antibody against human ApoB (AA: 3900-4110) recombinant protein. (Expected MW is 515.6 kDa)



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



Flow cytometric analysis of serum using ApoB Monoclonal antibody (green) and negative control (purple).

Storage

-20°C for one year

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