

Apolipoprotein B Monoclonal Antibody (F2C3)

Product Details

Size	1 mg
Species Reactivity	Human
Published Species	Mouse
Host/Isotype	Mouse / IgG2b
Class	Monoclonal
Type	Antibody
Clone	F2C3
Conjugate	Unconjugated
Immunogen	Purified human serum LDL
Form	Liquid
Concentration	5 mg/mL
Purification	Ion-exchange chromatography
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C
RRID	AB_11154637

Applications	Tested Dilution	Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20	-
Immunocytochemistry (ICC/IF)	2 µg/mL	-
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	1 Publication
Radioimmune Assays (RIA)	Assay-dependent	-

Product Specific Information

MIA1605 targets Apolipoprotein B in ELISA, IP, and RIA applications and shows reactivity with Human samples.

The MIA1605 immunogen is purified human serum LDL.

MIA1605 detects Apolipoprotein B which has a predicted molecular weight of approximately 513 kDa.

MIA1605 was formerly sold as a Seradyn product.

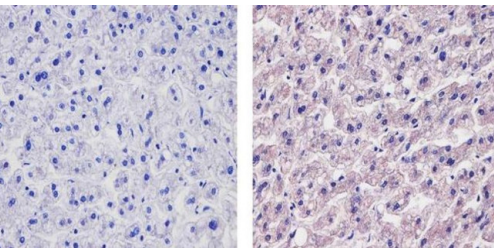
Product Images For Apolipoprotein B Monoclonal Antibody (F2C3)

Apolipoprotein B Antibody (MIA1605) in ICC/IF

Immunofluorescence analysis of Apolipoprotein B was performed using 70% confluent log phase Hep G2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with Apolipoprotein B (F2C3) Mouse Monoclonal Antibody (Product # MIA1605) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.

Apolipoprotein B Antibody (MIA1605) in IHC (P)

Immunohistochemistry analysis of Apolipoprotein B showing staining in the cytoplasm of paraffin-embedded human liver tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Apolipoprotein B Mouse Monoclonal Antibody (Product # MIA1605) diluted in 3% BSA-PBS at a dilution of 1:20 for 1 hour at 37°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



1 Reference

Immunoprecipitation (1)

Science (New York, N.Y.)

Enterically derived high-density lipoprotein restrains liver injury through the portal vein.

"MIA1605 was used in Immunoprecipitation to conclude that protection of the liver from injury in response to gut-derived LPS is a major function of intestinally synthesized HDL."

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Year
2021

Species
Mouse

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