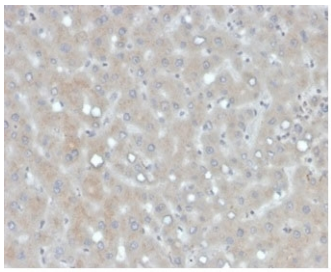
APOB Antibody APOB/4335 / Apolipoprotein B [clone APOB/4335] (V9160)

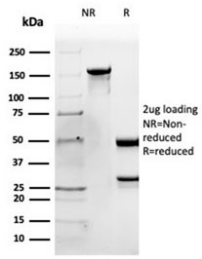
Catalog No.	Formulation	Size
V9160-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9160-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9160SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

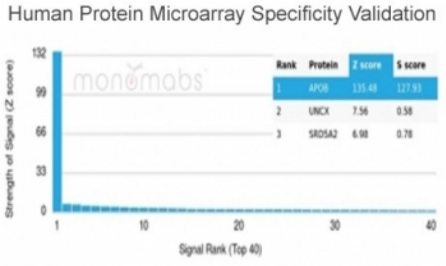
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b + 2c, kappa
Clone Name	APOB/4335
Purity	Protein A/G affinity
UniProt	P04114
Localization	Cytoplasm, Secreted
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This APOB Antibody APOB/4335 is available for research use only.



APOB Antibody APOB/4335 IHC. IHC staining of FFPE human liver tissue with Apolipoprotein B antibody (clone APOB/4335). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



APOB Antibody APOB/4335 Gel Run. SDS-PAGE analysis of purified, BSA-free Apolipoprotein B antibody (clone APOB/4335) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Apolipoprotein B antibody (clone APOB/4335). These results demonstrate the foremost specificity of the APOB/4335 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

APOB Antibody APOB/4335 / Apolipoprotein B Antibody recognizes apolipoprotein B, a large lipid-binding protein encoded by the APOB gene. APOB is an essential structural component of circulating lipoprotein particles and plays a central role in the transport and metabolism of cholesterol, triglycerides, and other lipids. Unlike exchangeable apolipoproteins, apolipoprotein B remains associated with the lipoprotein particle on which it is assembled, providing structural organization throughout the particle's lifecycle.

Two major forms of apolipoprotein B are produced in humans. ApoB-100 is the full-length protein and is synthesized primarily in the liver, where it serves as the principal structural protein of very-low-density lipoprotein. ApoB-100 remains associated with particles as VLDL is remodeled into intermediate-density lipoprotein and low-density lipoprotein, and it contains the region responsible for interaction with the LDL receptor. ApoB-48 is a shorter form produced through tissue-specific RNA editing of the APOB transcript and is an essential structural component of intestinal chylomicrons.

Through these two forms, apolipoprotein B participates in both endogenous and dietary lipid transport. APOB is therefore widely studied in relation to lipoprotein assembly, cholesterol homeostasis, triglyceride transport, cardiovascular biology, and metabolic disease. Because ApoB remains associated with atherogenic lipoprotein particles, its expression and abundance are also important subjects in research examining lipoprotein particle number and mechanisms contributing to dyslipidemia.

Clone APOB/4335 is a mouse monoclonal antibody generated against amino acids 592-689 of human apolipoprotein B, a sequence within the N-terminal region shared by ApoB-100 and ApoB-48. The clone has been cited in published research and is Protein Microarray Validated using the HuProt platform containing more than 19,000 full-length human proteins. This large-scale protein array analysis provides additional evidence of target recognition and specificity for the Apolipoprotein B Antibody.

NSJ Bioreagents offers clone APOB/4335 for research into apolipoprotein expression, lipoprotein biology, and metabolic regulation. An APOB Antibody can support investigation of lipid transport, lipoprotein assembly, cholesterol homeostasis, and molecular mechanisms associated with APOB-dependent metabolism.

For an alternative Protein Microarray Validated monoclonal clone with additional tissue validation, see our APOB Antibody APOB/3300 / Lipoprotein B Antibody page.

Application Notes

Optimal dilution of the APOB Antibody APOB/4335 should be determined by the researcher.

Immunogen

A portion of amino acids 592-689 from the human protein was used as the immunogen for the APOB Antibody APOB/4335.

Storage

Aliquot the APOB Antibody APOB/4335 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Apolipoprotein B antibody, APOB antibody, ApoB antibody, ApoB protein antibody, Apolipoprotein B-100 antibody, ApoB-100 antibody, Apolipoprotein B-48 antibody, ApoB-48 antibody

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