



Datasheet for ABIN5596981 anti-APOB antibody



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Overview

Quantity:	1 mg
Target:	APOB
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	Immunogen: apoLipoprotein Type B was isolated from human plasma by density gradient centrifugation followed by HPLC purification. Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Typically less than 1% cross reactivity against other types of apoLipoprotein was detected by ELISA against purified standards. This antibody reacts with human apoLipoprotein B and has negligible cross-reactivity with Type A-I, A-II, C-I, C-II, C-III, E and J apoLipoproteins. Specific cross reaction of anti-apoLipoprotein antibodies with antigens from other species has not been determined. Non-specific cross reaction of anti-apoLipoprotein antibodies with other human serum proteins is negligible.
Purification:	This product has been prepared by immunoaffinity chromatography using immobilized antigens followed by extensive cross-adsorption against other apoLipoproteins and human serum proteins to remove any unwanted specificities.

Target Details

Target:	APOB
Alternative Name:	APOLIPOPROTEIN B (APOB Products)
Background:	<p>Synonyms: APOB protein antibody, Apolipoprotein B 100 antibody, Apolipoprotein B 48 antibody, Apolipoprotein B antibody, FLDB antibody</p> <p>Background: Anti Apolipoprotein B antibody recognizes the gene product of APOB that is the primary apolipoprotein of low-density lipoproteins, which is responsible for carrying cholesterol to tissues. While it is unclear exactly what functional role APOB plays in LDL, it is the primary apolipoprotein component and is absolutely required for its formation. What is clear is that the APOB on the LDL particle acts as a ligand for LDL receptors in various cells throughout the body. Through a mechanism that is not fully understood, high levels of APOB can lead to plaques that cause vascular disease (atherosclerosis), leading to heart disease. There is considerable evidence that levels of APOB are a better indicator of heart disease and cardiovascular risk than total cholesterol or LDL. However, primarily for historic reasons, cholesterol, and more specifically, LDL-cholesterol, remains the primary lipid test for the risk factor of atherosclerosis.</p> <p>Gene Name: APOB</p>
Gene ID:	338
UniProt:	Q7Z7Q0
Pathways:	Lipid Metabolism

Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 1:50 - 1:500</p> <p>Application Note: Anti-apoLipoprotein antibodies have been used for indirect trapping ELISA for quantitation of antigen in serum using a standard curve, for immunoprecipitation and for western blotting for highly sensitive qualitative analysis.</p> <p>Western Blot Dilution: 1:200 - 1:1,000</p> <p>Immunoprecipitation Dilution: 1:100</p> <p>ELISA Dilution: 1:2,000 - 1:10,000</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
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Handling

Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.125 M Sodium Borate, 0.075 M Sodium Chloride, 0.005 M EDTA, pH 8.0 Stabilizer: None
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to opening. This product is stable 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Expiry Date:	12 months

Publications

Product cited in:	Hayashi, Campenot, Vance, Vance: "Protection of neurons from apoptosis by apolipoprotein E-containing lipoproteins does not require lipoprotein uptake and involves activation of phospholipase Cgamma1 and inhibition of calcineurin." in: The Journal of biological chemistry , Vol. 284, Issue 43, pp. 29605-13, (2009) (PubMed).
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