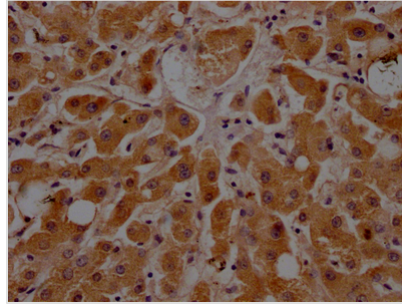


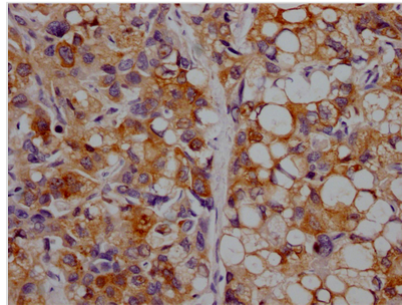


APOC3 Antibody

Product Code	CSB-RA925915A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P02656
Immunogen	A synthesized peptide derived from human APOC3
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Component of triglyceride-rich very low density lipoproteins (VLDL) and high density lipoproteins (HDL) in plasma (PubMed:18201179, PubMed:22510806). Plays a multifaceted role in triglyceride homeostasis (PubMed:18201179, PubMed:22510806). Intracellularly, promotes hepatic very low density lipoprotein 1 (VLDL1) assembly and secretion; extracellularly, attenuates hydrolysis and clearance of triglyceride-rich lipoproteins (TRLs) (PubMed:18201179, PubMed:22510806). Impairs the lipolysis of TRLs by inhibiting lipoprotein lipase and the hepatic uptake of TRLs by remnant receptors (PubMed:18201179, PubMed:22510806). Formed of several curved helices connected via semiflexible hinges, so that it can wrap tightly around the curved micelle surface and easily adapt to the different diameters of its natural binding partners (PubMed:18408013).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Cardiovascular; Metabolism; Signal transduction
Gene Names	APOC3
Accession NO.	8H12
Image	



IHC image of CSB-RA925915A0HU diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA925915A0HU diluted at 1:100 and staining in paraffin-embedded human liver cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

APOC3 encodes ApoC-III, an exchangeable apolipoprotein found on chromosome 11q23 in the apoA-I/C-III/A-IV gene cluster. ApoC-III is synthesized by both the gut and the liver, and it may be identified in chylomicrons, VLDL, and HDL in both the postprandial and fasting states. ApoC-III has been shown to inhibit lipoprotein lipase (LPL) and act as a key regulator of triglyceride metabolism, resulting in hypertriglyceridemia and, ultimately, cardiovascular disease. Plasma ApoC-III levels in humans are increased with hyperlipidemia and diabetes. ApoC-III is involved in the formation of atherosclerotic lesions and various other pathological processes associated with atherosclerosis, in addition to controlling triglyceride metabolism.

Genes for APOC3 antibody's heavy and light chains were cloned into plasma vectors, which were subsequently transfected into mammalian cells for expression. The resulting product is the recombinant APOC3 antibody. This recombinant APOC3 antibody was subsequently purified from the culture medium of transfected host cell lines through A synthesized peptide derived from human APOC3. It has verified to detect APOC3 protein Human in the ELISA, IHC.