

# Anti-Apolipoprotein CIII antibody ab21032

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### Overview

<b>Product name</b>	Anti-Apolipoprotein CIII antibody
<b>Description</b>	Rabbit polyclonal to Apolipoprotein CIII
<b>Host species</b>	Rabbit
<b>Specificity</b>	Specifically binds to human Apo CIII.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, Sandwich ELISA, ELISA, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Monkey
<b>Immunogen</b>	Full length protein corresponding to Human Apolipoprotein CIII. Native protein
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.02% Sodium azide Constituents: PBS, 0.0292% EDTA, 0.435% Sodium chloride
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified by Human Apo CIII-Sepharose affinity column.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab21032 in the following tested applications.

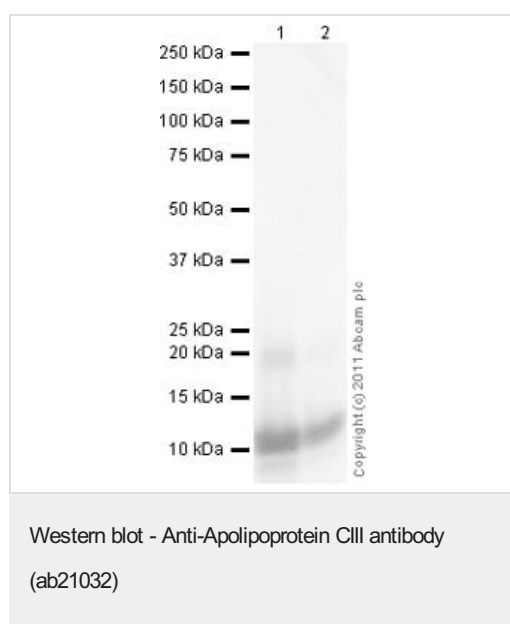
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
Sandwich ELISA		Use at an assay dependent concentration. PubMed: 21371998
ELISA		1/5000 - 1/40000. Can be paired for ELISA with <b><u>Biotin Goat polyclonal to Apolipoprotein CIII (ab21024)</u></b> .
WB		Use at an assay dependent concentration. Predicted molecular weight: 11 kDa.

## Target

<b>Function</b>	Inhibits lipoprotein lipase and hepatic lipase and decreases the uptake of lymph chylomicrons by hepatic cells. This suggests that it delays the catabolism of triglyceride-rich particles.
<b>Tissue specificity</b>	Constitutes 50% of the protein fraction of VLDL and 2% of that of HDL. Synthesized predominantly in liver and to a lesser degree in intestine.
<b>Involvement in disease</b>	Defects in APOC3 may be a cause of hyperalphalipoproteinemia (HYPALIP) [MIM:143470]. Affected individuals show high levels of alpha-lipoprotein (high density lipoprotein/HDL).
<b>Sequence similarities</b>	Belongs to the apolipoprotein C3 family.
<b>Post-translational modifications</b>	O-linked glycan consists of Gal-GalNAc disaccharide, further modified with up to 3 sialic acid residues. O-glycosylated on Thr-94 with a core 1 or possibly core 8 glycan.
<b>Cellular localization</b>	Secreted.

## Images



**All lanes :** Anti-Apolipoprotein CIII antibody (ab21032) at 1 µg/ml

**Lane 1 :** Native Human Apolipoprotein CIII (**ab77944**) at 0.1 µg

**Lane 2 :** Native Human Apolipoprotein CIII (**ab77944**) at 0.01 µg

### Secondary

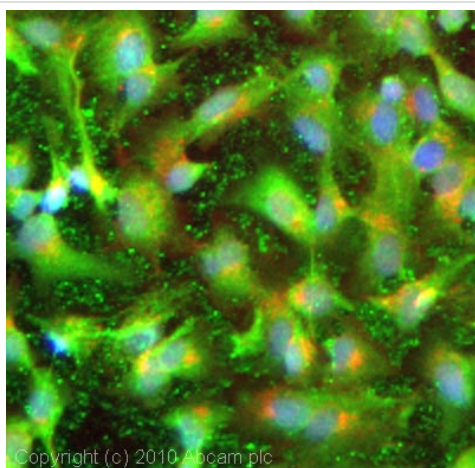
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 11 kDa

**Exposure time:** 1 minute



Immunocytochemistry/ Immunofluorescence - Anti-Apolipoprotein CIII antibody (ab21032)

ICC/IF image of ab21032 stained HepG2 (Human liver hepatocellular carcinoma cell line) cells.

The cells were fixed in 4% formaldehyde for 10 minutes and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1 hour to permeabilize the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab21032, 5 µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa-Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1 hour. Alexa-Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1 hour.

DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43 µM.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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